

ANTIQUE ELECTRONIC SUPPLY



RCA Radiola 60 and 103 Speaker

1990 WHOLESALE CATALOG

SUPPLIES • PARTS • TUBES • BOOKS

688 W. FIRST ST. • TEMPE, ARIZONA 85281 • PHONE (602) 894-9503 • FAX (602) 894-0124



ANTIQUE ELECTRONIC SUPPLY

Offices and Warehouse at 688 W. First St., Tempe, Arizona

To Our Customers:

In 1981 a father/son team struggled to locate a type 201A vacuum tube to complete the restoration of a 1925 Atwater Kent radio. Realizing that many other radio collectors were experiencing the same difficulty, George H. and George A. Fathauer started a business for the purpose of making early tubes and parts more readily available.

With this catalog Antique Electronic Supply begins its eighth year of supplying the antique radio collector, ham, audio enthusiast, and the TV-radio repair trade with the parts necessary to keep the oldies and classics running. What began as a specialty supply house for antique radio tubes has grown into a leading international supplier of vacuum tubes for all purposes, including industrial. Our Tempe warehouse now occupies 4500 sq. ft., with further expansion in the works for 1990 as we try to accommodate the 5000 plus items stocked. Over 50 of the items in this catalog have been custom-made by A.E.S., while many others are obsolete and cannot be found at any other electronic parts supply store. If the part you are seeking is not listed in our catalog, please ask us. We have many unlisted items or may be able to suggest a source or alternative.

OUR SERVICE: Orders are normally shipped within 24 hours by U.P.S. Next day air or 2nd day air available upon request. All catalog items are stocked for immediate shipment. Occasionally we have to back order an item, in which case you will be notified immediately, and the item will be shipped as soon as possible.

OUR GUARANTEE: All items in our catalog are 100% guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit. Tubes are guaranteed for 90 days, except for breakage or burned out filaments.

OUR PRICING: We endeavor to match or beat the prices of other suppliers, but must cover the cost of carrying a huge inventory of thousands of items which have low turn-over because of their limited usage. We feel that we can save you money by providing you with a reliable and timely source for your radio needs.

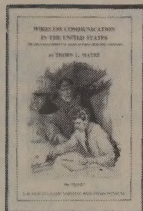
ORDERING INFORMATION: An order form is provided following page 14. Telephone orders will be accepted from 8:30 a.m. to 5:00 p.m. local time Monday through Friday and 8:30 a.m. to 1:00 p.m. Saturday. FAX orders may be placed anytime day or night. See back of order form for additional information.

ANTIQUE ELECTRONIC SUPPLY

ON THE COVER: 1928 RCA Radiola 60 receiver shown with the RCA 103 speaker, from the collection of Ken Ericksen of San Diego. Restoration aided by Chen Wen Shuen and Xia Zhi-Lin of the People's Republic of China.

ANTIQUE ELECTRONIC SUPPLY • (602) 894-9503

NEW BOOKS



WIRELESS COMMUNICATION IN THE UNITED STATES, The Early Development of American Radio Operating Companies, by Thorn L. Mayes, WGAX

Written by an electrical engineer who grew up in the developmental days of wireless, this is a factual account of alternators, arcs and sparks, coherers, crystal detectors, etc.. Also details the beginnings of 12 pioneering radio operating companies. 240 pages, 160 illustrations.

No. B-542

\$29.95

SPARTON RADIO SERVICE MANUAL

A 4 volume reprint of the original Sparton factory service manuals and bulletins covering radios and phonographs made from 1926 to 1942. Detailed schematics, chassis diagrams, alignment information and mechanical illustrations give far more data than available in Riders.

No. B-538 Vol. 1 1926-33 \$19.95

No. B-540 Vol. 3 1937-39 13.95

No. B-539 Vol. 2 1934-36 15.95

No. B-541 Vol. 4 1940-42 12.95



1990 PRICE GUIDE TO VINTAGE TV'S and COLLECTABLE RADIOS, By Harry Poster and John Sakas

Lists over 250 collectable TV's from 1935-1960, as well as over 230 catalin, novelty, and mirror radios from the 1930's through 1950's. Gives manufacturer, model number, brief description of set, and current market value. 28 pages.

No. B-537

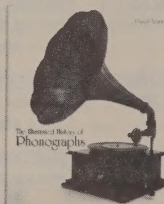
\$10.00

THE ILLUSTRATED HISTORY OF PHONOGRAPHS, by DANIEL MARTY

Traces the development of the phonograph and all its variations, from the essential to the outlandish: coin-operated phonographs, talking clocks, message-taking machines and more. 200 illustrations (65 in color). Hardcover. 204 pages. Originally published at \$60.00.

No. B-543

\$29.95



1928 RADIO TROUBLESHOOTING, by Enno R. Hann

This high quality reprint of a 1928 classic contains everything you need to know about 20's vintage radio receivers, including batteries, battery eliminators, antennas, troubleshooting, repairs, and reproducers. Also features tube characteristics chart with Cenco lettered tubes, DeForest DL and DV tubes, Western Electric, Daven, Schicklering, Sovereign, Van Horn and other hard-to-find types. Well illustrated, 317 pages.

No. B-544

\$14.95



BOOK CLEARANCE SALE

The following books are no longer listed in our 1990 catalog. We have only a few copies left and sale is limited to stock on hand.

THE AWA REVIEW, Vol. 3 (1988 edition)

No. B-503 Was \$ 8.95 Sale Price \$ 8.00

FERNSEHEN: WIE ES BEGANN, by Dieter Holtschmidt. Well illustrated history of European television, written in German. Hardcover.

No. B-340 Was \$24.95 Sale Price \$19.95

TELEVISION BY ELECTRON IMAGE SCANNING, by Philo T. Farnsworth. Illustrated essay from the father of modern television.

No. B-396 Was \$ 2.00 Sale Price \$ 1.50

ELECTRICAL AND ELECTRONIC TECHNOLOGIES, A CHRONOLOGY OF EVENTS AND INVENTORS FROM 1900 to 1940, by Henry B.O. Davis. Hardcover.

No. B-370 Was \$17.50 Sale Price \$11.95

EARLY WIRELESS, by Anthony Constable. The 1980 classic on collecting from Britain. Fabulous photos. Hardcover.

No. B-323 Was \$11.95 Sale Price \$ 7.95

PRICE GUIDE TO PLASTIC COLLECTIBLES, by Lyndi Stewart McNulty. Various plastics defined, and contains one whole chapter on radios. Well illustrated.

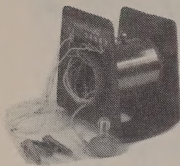
No. B-389 Was \$17.95 Sale Price \$12.95

THE GENERAL, DAVID SARNOFF, by Kenneth Bilby, A biography of David Sarnoff and history of the communications industry. Hardcover.

No. B-392 Was \$20.95 Sale Price \$14.95

THE CAT'S WHISKER, 50 YEARS OF WIRELESS DESIGN, by Jonathan Hill. Details the beginnings of wireless in Britain, with many high quality photos. Hardcover.

No. B-387 Was \$10.95 Sale Price \$ 9.95



BUILD A WORKING CRYSTAL RADIO!

Crystal radio kit is ideal for the beginning radio hobbyist. Comes complete with tuning coil, slider, germanium diode and earphone.

No. K-401

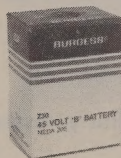
\$ 8.95

RUBBER CHASSIS MOUNT WASHERS

Replace hardened rubber washers on Zeniths and other early radio chassis with these soft rubber cushions. PH-182 washer has adhesive backing for lamination with PH-183 to obtain 3/8" thick washer. Inner diameter is 1/4", outer diameter 1 1/4".

No. PH-182 1/8" thick \$.45

No. PH-183 1/4" thick .45



45 VOLT BATTERY CLOSEOUT

Burgess Z30 - 45 volt "B" battery with 22 1/2 volt tap, takes 5-pin connector. 3" x 2 3/16" x 4".

No. S-Z30

\$10.95

POWER TRANSFORMER SPECIALS

FILAMENT TRANSFORMER - 6.3V. center-tapped, 1 Amp. U-Bracket mounting, 2 35/64" ctrs.

No. PT-988 \$ 9.20

POWER TRANSFORMER - 250-0-250V. 120mA., 5V. 2A, 6.3V.C.T. 4A. Vertical mount, 2" x 2 1/8" ctrs.

No. PT-989 \$27.00

POWER TRANSFORMER - 320-0-320V. 85mA, 5V. 3A, 6.3V. 3.2A. Vertical mount 2" x 2 7/16" ctrs.

No. PT-990 \$24.00

POWER TRANSFORMER - 50V. C.T. 250mA, 10V. 200mA. U-Bracket mount, 2 3/8" ctrs.

No. PT-991 \$ 3.50



HAMMERTONE FINISH

Restore hammered finishes with metallic grey hammertone paint from Illinois Bronze. Supplied in 12oz. spray can.

No. S-232 \$ 4.69

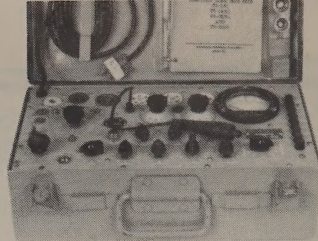
TUBE BOXES - NEW SIZES!

Plain white boxes with dividers to cushion tube. Minimum order- 10 of a size.

		10-99	100-up
No. S-251	1 7/8" x 1 7/8" x 5 3/8"	\$.15	\$11.90
No. S-252	2 1/4" x 2 1/4" x 6 1/8"	.16	13.20

WIREWOUND POTENTIOMETERS - 4 WATT

No. PZ-350	2K ohm with SPST switch, 1/4" dia. shaft 1 1/2" long.	\$ 4.35
No. PZ-351	25K ohm, 1/4" dia. shaft 1 1/2" long.	\$ 3.75
No. PZ-352	20K ohm, 1/4" dia. shaft 5/8" long.	\$ 2.85



TUBE TESTERS

We have just acquired a quantity of Military TV-7/U Tube Testers from the U.S. Government. These are the Military version of the Hickok 533 transconductance type testers and are the standard we and many others use for tube acceptance. Untested units may require repair.

No. SZ-300	Fully Tested	\$90.00
No. SZ-301	Complete but untested	\$45.00

PHILCO ADVERTISING POSTERS

We found some additional stock on these 1937 posters that appeared previously in our 1989 Supplement #1. B-507 is two-color, red and black and B-508 is single color, brown.

No. B-507	\$ 3.00
No. B-508	2.00



NEW OLD STOCK LIGHTNING ARRESTERS

Porcelain old style lightning arrester with words "FISHER RADIO LIGHTNING ARRESTER" molded in top. 3 1/8" x 1 1/4" x 7/8".

No. PM-441 \$ 4.50

Similar to above, with words "PHILCO RADIO LIGHTNING ARRESTER" molded in top. 3 1/8" x 1 1/8" x 3/4"

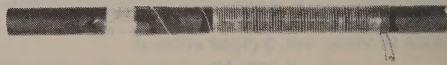
No. S-439 \$ 4.50

FERRITE ROD

Ideal for making "loop stick" antennas and high Q crystal set coils. Type 61 material, .330" dia. by 5" long. Al approx. 600 uHenries for 100 turns.

No. PC-185 \$ 2.60

FERRITE ROD ANTENNAS



"Loop Stick" antenna tunes broadcast band with 250pf. Has winding for external antenna. 5/16" x 5 3/8".

No. PC-190 \$ 3.85



Flat "loop stick" tunes broadcast band with 150pf. 5/32" x 15/32" x 2 3/4".

No. PC-191 \$ 2.90

4 PIN MOLDED TUBE SOCKET

UX type surface mount tube socket. This is the same design used in the early 1 tube radio projects marked G, P, and +, - for filament.

No. PS-178 \$ 4.00

ANTIQUE ELECTRONIC SUPPLY

DATE _____

YOUR ORDER NO. _____

SOLD TO

SHIP TO

NAME _____

NAME _____

STREET ADDRESS _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

CITY _____ STATE _____ ZIP _____

PHONE NO. () _____

PHONE NO. () _____

[illegible]

METHOD OF PAYMENT

☐ CREDIT CARD _____

CARD NUMBER

EXP. DATE _____

☐ CHECK☐ C.O.D.

SIGNATURE

TOTAL FOR GOODS _____

SALES TAX (AZ CUSTOMERS) _____

HANDLING CHARGE 2. 00

SHIPPING CHARGES _____

TOTAL _____

ANTIQUE ELECTRONIC SUPPLY

P.O. BOX 1810 • TEMPE, ARIZONA 85281 • USA

ADDRESS CORRECTION REQUESTED

GEORGE SELATTI
FAIR RADIO SALES
1016 E. EUREKA ST. P.O. BOX 1105
LIMA, OH 45802

BULK RATE
U.S. POSTAGE
PAID
TEMPE, ARIZONA
PERMIT NO. 216

TUBE SPECIALS

SPECIAL SALE - BATTERY SET TUBES

Stock up at these low prices. All are new and 100% guaranteed.
Minimum order - 5 of a type

1A6	\$.90	1LN5	1.40
1A7GT	1.40	1N5GT	1.90
1D7G	.60	1R4	1.40
1H6G	.90	1R5	.90
1J6GT	1.40	1S4	.60
1LC5	.90	1S5	.90
1LD5	.90	1U4	1.40
1LG5	.90		

EARLY VALVES (TUBES) FROM GT. BRITIAN

VR types are Royal Air Force Valves

VR22	10E/7958 2 volt globe triode	\$ 4.50
VR27	10E/8239 Like above spray shield, W/B	3.50
VR66	10E/11447 Spray shield triode	2.00
VR78	10E/11540 Special miniature diode	1.50
VR91	(EF50) Pentode	1.00
VR99	10E/277 (X66) Hexode triode	1.00
VR102	10E/279 (BL63) Dual triode	1.50
VR109	10E/11098 13V. Triode	1.50
VT-501	10E/389 (E1192) Pentode	1.50

SUB-MINIATURE TUBE SALE

5641	6.3V Rectifier	\$ 1.00
5906	26.5V UHF Pentode	1.00
6205	6.3V UHF Pentode	1.00
6206	6.3V UHF Pentode	1.00
6418	1.25V Pentode power amp.	1.00
7550	6.3V., .5 Amp fil. dual triode	1.00

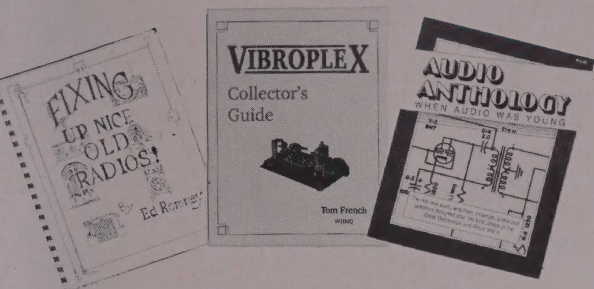
SPECIAL TUBES

30S/VT67	Same as popular type 30 except 2 volt .12 Amp filament. Can sub for 01A's or 99's in early battery sets.	\$ 1.80
38A	Blue Arcturus in original boxes. Limited quantity.	9.00
6CA7/EL34	Audio Output tubes from Yugoslavia	5.95
6L6GC	Audio Output tubes from Russia	5.00

Still available from previous flyer:

4046A(VT-122)	Spray shield pentode	2.00
RKR73	Rectifier	1.00
715A/C	HF Transmitting triode with special socket	5.00

NEW BOOKS



FIXING UP NICE OLD RADIOS! by Ed Romney

Easy to understand guide to antique radio repair covers everything from crystal sets to the Scott 800B! Uses photos of the insides of popular collectable sets to cover actual repair jobs in detail. Includes AK, Zenith, Bosch, Scott, National, Hallicrafters, Crosley 50, Radiola III, 17, 25, R-28, Philco and others. Explains Wunderlich AVC, crystal filters, Scott and Zenith push-buttons and band-switches, alignment and more. 170 pages, 8 1/2 x 11 " spiral bound.

No. B-549 \$19.00

VIBROPLEX COLLECTOR'S GUIDE by Tom French

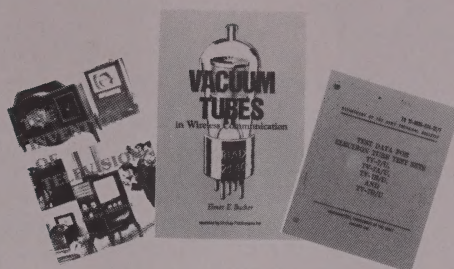
The only book of its kind detailing the history of the Vibroplex company and the keys they produced. Contains information on dating and identifying the Vibroplex bugs, methods of adjustment, and reproductions of company ads. Very nicely done. 87 pages.

No. B-547 \$14.95

AUDIO ANTHOLOGY, Volume 3 edited by C. G. Mcproud

This is the third in a series of articles reprinted from Audio Engineering magazine circa 1952-55. Contains construction and informative articles on 8 power amplifiers, 18 preamps and filter designs, plus 12 loudspeaker designs. 120 pages.

No. B-548 \$16.95



THE INVENTION OF TELEVISION by Harry Shelton

Details the evolution of the television receiver from motion pictures and radio to its present day form. Covers the principals of early scanning disc systems as well as modern electronic systems and color TV. Also follows the rise of the television Networks. 140 pages.

No. B-545 \$12.95

VACUUM TUBES IN WIRELESS COMMUNICATION by Elmer E. Bucher

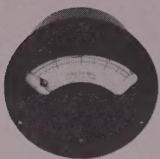
This high quality reprint of a 1919 book shows over 140 circuits for employing vacuum tubes as detectors, radio frequency or audio frequency amplifiers, as used in regenerative receivers, "beat" receivers and transmitters. Includes nice sections on the Kenotron and Pliotron tubes, Weagant valves, Fleming valve and others. 202 pages.

No. B-550 \$14.95

TEST DATA FOR TV-7/U TUBE TESTER

High quality reprint of the test set-up manual for the military TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U versions of Hickok tube testers, normally supplied in the lid of the tester. Also contains operating instructions, conversion table for Army VT numbers, and data table for CV type tubes. 83 pages.

No. B-546 \$ 5.00



WESTON PANEL METER

This is an impressive early style panel meter with cast iron housing and set point marker. 7 3/4" dia flange. 0 to 40 V DC. 100,000 ohm resistance. Binding posts on rear. 8 1/2 lbs.

No. PA-106 \$20.00

OLD - STYLE AC PLUGS

Our popular S-100 AC plug is no longer available. We are now offering the following early style plugs:



Round, ivory color phenolic plug, 1 1/4" dia. x 5/8" deep.

No. PS-100 \$.95



Round, brown phenolic plug, 1 3/16" dia. x 1 1/4" deep.

No. PS-103 \$.99



Flat, brown phenolic plug, 1 1/2" wide x 1 3/16" deep.

No. PS-104 \$.99

REPLACEMENT LAMPS FOR TV-7/U TESTERS

Hard to find fuse and "shorts test" replacement lamps for military version of Hickock testers.

TYPE	VOLTS	AMPS	BASE	BULB	PRICE
81	6.5	1.02	Bayonet	G-6	\$.89
NE45	105-125	.002	Screw	T-4 1/2	1.80

NEUTROWOUND TUBE SHIELDING DOMES

High quality reproduction tube shield "domes" for the 1925-1928 Neutrowound receivers. Nickel plated.

No. PD-110 \$18.00

FILAMENT TRANSFORMER SPECIAL

Stancor P-6309 117V. 60Hz Pri. 6.3V.C.T. 20 Amp. Sec. Mounting ctrs. 2 1/2" x 3". 4 1/2" high. 6 1/2 lbs.

No. PT-992 Transformer \$16.50



I.F. TRANSFORMERS

We have a modest quantity of 455KC I.F. transformers in 3/4" square "K-Tran" construction. We also have universal adapter plates for 2 hole mounting with 1 1/2" to 1 5/8" centers.

No. PC-192 455 KC IF Transformer \$3.90

No. PH-201 Mounting plate & Clip for above .90

EXTRA-FINE MAGNET WIRE

Insulated magnet wire for winding small coils and transformers.

No. PW-318 36 AWG, 750 ft. \$2.60

No. PW-320 40 AWG, 1500 ft. 2.90



WIREWOUND POTENTIOMETER SPECIAL

Clarostat #43C1, 2000 ohm 2 watt potentiometer with 1/4" round shaft 2" long.

No. PZ-353 \$2.65



RUBBER REVITALIZER

Removes "dead" rubber from old rubber surfaces to clean and revitalize idler wheels, belts and pinch rollers. 1 oz. bottle.

No. SC-220 \$1.95

TRANSISTORS - We are preparing to handle transistors for early auto radios and small plastic sets. If you have any need for early transistors we would appreciate information on types that you use.

THORDASON POWER TRANSFORMERS

Due to inavailability of Triad transformer nos. P-R-9A, P-R-11B, P-R-112 and P-R-14A listed, in our general catalog, we are now stocking the following Thordason transformers:

PART NO.	RATING	MTG. CENTERS-IN	WEIGHT LBS.	PRICE
PT-24R01	325-0-325V. 40MA., 5.0V. 2A., 6.3V.C.T. 2A.	2 x 2 1/2, horiz.	2.5	\$39.06
PT-24R40	350-0-350V. 90MA., 5.0V. 2A., 6.3V.C.T. 3A.	2 1/4 X 2 13/16, horiz	4.5	49.95
PT-24R40U	350-0-350V. 90MA., 5.0V. 2A., 6.3V.C.T. 3A.	2 1/4 X 2 3/8, vert.	4.5	49.95
PT-24R22U	360-0-360V. 120MA., 5.0V. 3A., 6.3V.C.T. 3.5A	2 1/2 X 2 7/16, vert.	5.5	50.60



TUBE COLLECTORS SPECIAL

One each of the following of unusual tube designs.
All are new - Total value over \$30.00.

1 - Phillips EF50

1 - German EBC3

1 - Subminiature 6205

1 - Nuvistor 2CW4

1 - Acorn Tube Type 957

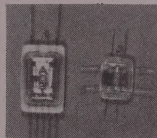
No. TX-1000 Lot Special \$ 7.95

NOS EARLY TUBES

We have accumulated a modest quantity of new,
old stock early tubes such as UX-199, UY-227, etc.
Call for price and availability.

WESTINGHOUSE "MATCHBOX " TUBES

These are the only known samples of tubes developed for
the Signal Corp in the late 1950's for printed circuit
applications.



Type WX-3506 - electrically similar
to type 6AG5 **\$10.00**

Type WX-4073 - probably similar
to type 6AK5 **\$10.00**

ELECTROLYTIC CAN CAPACITORS

MFD/VOLTAGE	DESCRIPTION	SIZE-IN	PRICE
1000/25	Twist mount	1 x 3	\$.85
1000/50	Clamp mount	1 x 2 3/8	.95
50/450,20/450,4/350	Twist mount	1 x 4	2.00
80/450,40/450,10/450	Twist mount	1 3/8 x 3 1/4	3.00

TUBULAR, AXIAL LEAD ELECTROLYTICS

MFD	VOLTAGE	MAKE	SIZE-IN.	PRICE
4.7	100	Siemens	1/4 x 11/16	\$.20
100	100	Siemens	7/16 x 1 3/16	.40
100	150	Planet	7/8 x 1 3/4	.85
4	250	CDE	1/2 x 1 1/4	.40
8	250	CDE	9/16 x 1 1/2	.60

ANTIQUE ELECTRONIC SUPPLY

P.O. Box 1810 • Tempe, AZ 85280 • U.S.A. • (602) 894-9503 • FAX (602) 894-0124

DATE _____

YOUR ORDER NO. _____

SOLD TO

SHIP TO

NAME _____

NAME _____

STREET ADDRESS _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

CITY _____ STATE _____ ZIP _____

PART NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT

MINIMUM ORDER \$10.00

METHOD OF PAYMENT

☐ CREDIT CARD



CARD NUMBER _____

EXP. DATE _____

☐ CHECK

☐ C.O.D.

SIGNATURE _____

TOTAL FOR GOODS _____

SALES TAX (AZ CUSTOMERS) _____

HANDLING CHARGE **2.00**

SHIPPING CHARGES _____

TOTAL _____

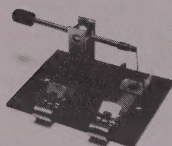
GEORGE SELATTI
FAIR RADIO SALES
1016 E. EUREKA ST. P.O. BOX 1105
LIMA, OH 45802

BULK RATE
U.S. POSTAGE
PAID
TEMPE, ARIZONA
PERMIT NO. 216

ADDRESS CORRECTION REQUESTED

P.O. BOX 1810 • TEMPE, ARIZONA 85281 • USA

ANTIQUE ELECTRONIC SUPPLY



CRYSTAL DETECTOR STAND

Old-time crystal detector stand produced by A.E.S. comes complete with cat's whisker, sliding rod and ball assembly, holder for galena crystal, plastic base, and fahnestock clips. Base measures 1 3/4" x 2 1/4". Galena crystals not included, see our 1990 catalog, page 13.

No. PM-160 \$ 6.95



NEW, OLD STOCK CRYSTAL RADIO

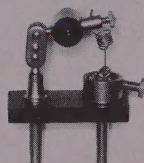
50's vintage crystal set consists of coil and variable capacitor in red plastic cabinet with tuning knob. Detector not included. Made in Germany. 6 oz.

No. PM-201 \$ 6.95

Diode detector with plug to fit socket on PM-201 crystal set. (Quantity limited, PM-160 crystal detector or a 1N34 diode may also be used with PM-201).

No. PM-161 \$ 2.50

NEW!



"VAAM" N.O.S. CRYSTAL DETECTOR

Early vintage high quality crystal detector assembly by "Vaam" of Italy. These are in the original boxes, and include cat's whisker, galena crystal and stand with two 4 mm. dia. plugs, 2 cm. apart. 4 oz.

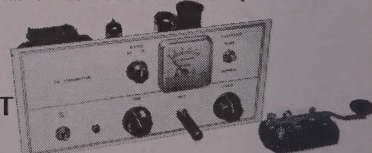
No. PM-162 \$15.00



HIGH IMPEDANCE HEADSET

2000 ohm single headset has banana plugs to match PM-201 crystal set. Made in Germany by Royal. 7 oz. **No. PA-110 \$ 7.95**

AMATEUR BAND TRANSMITTER KIT



Low cost crystal-controlled transmitter kit operates 15 watts input on 80 and 40 meter amateur bands. Includes aluminum chassis 5" x 10" x 2" with drilling template, screened front panel, wiring diagram, key and all components except tubes. Uses one each 12BY7 and 6L6GC tube. Dimensions: 11"W, 6"H, 7"D. 6 1/2 lbs.

No. K -290 \$89.99

TUBES — RECEIVING • INDUSTRIAL • TRANSMITTING

Listed below are over 2500 tube types which are new and stocked for immediate shipment. We are a Phillips-ECG distributor and can supply most of their current types. Other brands include GE, RCA, Sylvania, Amperex, etc. If you don't find your tube type listed please contact us. Many types have equivalent numbers which we can cross reference. Because most tube types are no longer manufactured, quantities available are limited and prices apply to current stock.

Many tube types are available in different envelope styles. For example, 6A8 is metal, 6A8G is ST large glass and 6A8GT is small glass. Unless specified, we may substitute metal for glass, etc. These are equivalent electrically.

With this catalog we are integrating European tube types with domestic types. Tube types starting with letters fall after the numerical listing. Industrial and transmitting tube types are also integrated into this listing.

Very early tube types and certain scarce types normally not available are shown under EARLY TUBE TYPES on page 7.

Our cost of some tube types has been volatile and pricing cannot be guaranteed. Call for current pricing if critical. We also offer special quantity pricing on some types. All tubes are guaranteed to meet manufacturers specifications.

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
01A(ST)	13.50	1C21	9.00	1P40	18.00	2C50	5.00	3AF4A/3DZ4	2.84	3DB3	see 3CY3
0A2	3.00	1C5GT	2.60	1P5GT	2.10	2C51	4.00	3AL5	1.65	3DB3/3DJ3	5.39
0A3	4.50	1C6	2.64	1Q5GT	1.80	2C51W	see 5670	3AT2B	5.40	3DC3	9.00
0A4G	15.00	1C7G	3.20	1Q6	4.00	2C52	4.50	3AT6	2.00	3DF3/A	6.33
0A5	9.00	1C8	4.00	1R4	2.28	2C53	45.00	3AUG	2.13	3DG4	5.98
0B2	3.90	1D21/SM4	45.00	1R5/DK91	2.28	2C3A	2.54	3AV6	1.37	3DH3	4.86
0B3	2.90	1D5GP	3.50	1RK31	3.00	2CN3B	1.90	3AW2A	4.14	3DHH12	3.00
0C2	4.86	1D7G	2.70	1S2/A/DY87	3.33	2CW4/2DS4	8.41	3AW3	see 3A3	3DJ3	see 3DB3
0C3	4.50	1D8GT	2.70	1S21	4.00	2CY5	1.90	3B2	4.85	3DK6	2.64
0D3	4.50	1D63A	6.65	1S4	1.23	2D21/PL21	3.00	3B22/EL1C	20.00	3DR3	12.54
0E3	7.44	1DK27	1.50	1S5/DAF91	1.60	2DHH12	4.00	3B24	16.00	3DS3	11.40
0G3	3.50	1DK29	2.01	1S6	2.94	2DS4	see 2CW4	3B25	25.00	3DT6A	2.79
0Y4	5.00	1DN5	3.00	1SA6GT	4.50	2DV4	9.00	3B26	20.00	3DZ4	see 3AF4A
0Z4/A	3.18	1E4G	5.20	1SB6GT	4.50	2DZ4	2.60	3B28	20.00	3E29	20.00
1A3	1.98	1E5GP	2.70	1T4	3.00	2E22	35.00	3B29	25.00	3E6	3.57
1A4P	3.03	1E7G	2.70	1T5GT	2.10	2E24	3.00	3B4	1.98	3EA5	4.00
1A5GT	2.50	1E8	4.50	1T6	2.10	2E25	4.00	3B5GT	3.00	3EH7/XF183	2.76
1A6	3.50	1F1	3.00	1U4	3.39	2E26	3.00	3B7	2.67	3EJ7/XF184	3.96
1A7GT	2.60	1F4	2.70	1U6	2.80	2E30	8.00	3BA6	1.41	3ER5	3.00
1A85	2.85	1F5G	2.70	1U5	5.50	2E31	5.00	3BC5/3CE5	1.71	3FH5	4.00
1A86/DK96	3.60	1F6	2.70	1V	4.20	2E32	7.00	3B6	1.40	3FS5	3.50
1A5	3.60	1F7G	4.50	1V2	2.64	2E36	3.00	3BH2	6.00	3GK5	3.84
1AC6/DK96	4.17	1G3GT	see 1B3GT	1V5	3.51	2E41	6.00	3BL2A	5.39	3GS8	see 3BU8
1AD2/1BY2A	3.89	1G4GT	3.70	1V6	3.51	2E5	5.70	3BM2	2.61	3GW5	3.00
1AD4	4.20	1G5G	3.60	1W4	6.00	2EA5	1.40	3BN2A	2.64	3HA5/3HM5	5.12
1AD5	3.60	1G6GT/G	3.60	1W5	5.00	2EG4	8.54	3BN4A	1.82	3HK5	3.00
1AE4	4.80	1H2	3.00	1X2/B/C	see 1BX2	2EN5	2.40	3BN6	3.20	3HM5	see 3HA5
1AF4/1AJ4	3.90	1H4G	3.20	1Z2	6.00	2ER5	1.58	3BS2B/3BW2	5.40	3HQ5	5.88
1AF5/1AH5	3.60	1H5GT/G	2.34	2-01C	75.00	2FH5	1.50	3BT2	5.40	3HS8	4.35
1AG4	3.90	1H6G	2.46	2A3	20.00	2FQ5A/2GK5	5.03	3BU8/3GS8	2.70	3JC6A	6.20
1AG5	3.60	1J3/1K3A	5.79	2A4G	3.90	2FS5	3.90	3BW2	see 3BS2B	3KT6	4.00
1AH4	3.60	1J5G	3.50	2A5	8.50	2FY5	3.50	3BVG	1.80	3LF4	2.94
1AH5	see 1AF5	1J6G	6.50	2A6	4.50	2G21	16.00	3BZ6	3.84	3MP26	9.00
1AJ4	see 1AF4	1J6GT	6.50	2A7	4.50	2GK5	see 2FQ5A	3C21	5.00	3Q4	4.83
1AJ5	3.60	1K3A	see 1J3	2AF4	2.28	2GU5	4.14	3C23	18.00	3Q5GT	3.20
1AK4	3.60	1L4/DF92	3.00	2AH2	5.00	2GW5	3.00	3C24	see 24G	3S4/DL92	1.86
1AK5	3.60	1L6	8.50	2AS2/A	4.50	2HM5/2HM5	5.39	3C31/C1B	40.00	3TF7	30.00
1AN5/DF97	2.46	1LA4	4.50	2AV2	4.30	2HK5	2.70	3C4/DL96	3.00	3V4/DL94	4.68
1AX2	2.91	1LA6	4.50	2B22	70.00	2HM5	see 2HA5	3C45	50.00	4-125A/4D21	90.00
1AY2	8.22	1LB4	4.50	2B3	7.00	2J22	65.00	3C6/XXB	1.74	4-250A/5D22	95.00
1B22	4.00	1LC5	1.80	2B35/EA50	7.00	2K22	85.00	3CA3	3.60	4-400A/8438	110.00
1B23	20.00	1LC6	2.40	2B6	9.00	2K25	45.00	3CB6/3CF6	2.54	4-400C/6775	110.00
1B27	9.00	1LD5	2.60	2B7	3.50	2K28	65.00	3CE5	see 3BC5	4-500A	250.00
1B3GT/1G3GT	4.50	1LE3	3.90	2BJ2	4.77	2K45	95.00	3CF6	see 3CB6	4-65A/8165	45.00
1B4/P	2.61	1LG5	3.50	2BN4A	2.67	2V2	3.00	3CN3B	4.29	4A6	4.20
1B44	15.00	1LH4	2.91	2BU2	5.00	2V3G	3.33	3C56	1.71	4AU6/4BA6	3.48
1B49	3.00	1LN5	3.50	2C21	6.00	2W3	9.00	3CU3A	6.81	4AV6	3.10
1B5	3.90	1M3/DM70	4.65	2C22	see 7193	2X2/A	3.00	3CV3A	5.00	4B24	see EL3C
1B56	20.00	1N2A	2.34	2C26	5.00	2Z2	9.00	3CX100A	30.00	4B28	40.00
1B7GT	2.46	1N3/DM71	4.32	2C34/RK-34	2.00	3-400Z/8163	120.00	3CX3/3DA3	5.98	4B31	75.00
1B82A	5.15	1N5GT	3.20	2C36	65.00	3-500Z	120.00	3CY3/3DB3	5.39	4B32	20.00
1B82	2.10	1N6G	3.24	2C39/A	40.00	3A2	2.19	3CY5	1.90	4B368	5.00
1BH2A	2.67	1P21	50.00	2C40/A	55.00	3A3/A/C/3AW3	4.85	3CZ3A	5.97	4BA6	see 4AU6
1BK2	3.06	1P28	35.00	2C42	70.00	3A4	3.60	3D21A	25.00	4BC5/4CE5	1.44
1BX2/1X2/B/C	2.70	1P29	30.00	2C43	20.00	3A5/DCC90	4.90	3D6	3.60	4BC8/4RHH2	2.75
1BY2A	see 1AD2	1P39	18.00	2C46	65.00	3A8GT	2.16	3DA3	see 3CX3	4BE6	1.71

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
4BL8/XCF80	2.87	5AT8	1.77	5Y4G	3.80	6AR5	7.81	6BK4C/6EL4A	5.50	6CJ3/6DW4B	4.53
4BN6	2.63	5AU4/5V3A	2.40	5Y4GT	3.80	6AR6	2.00	6BK5	1.71	6CJ5/EF41	5.22
4BQ7A/4BZ7	3.30	5AV8	2.45	5Z3	5.50	6AR8	5.37	6BK6	see 6AT6	6CJ6/EL81	15.00
4BS8	3.30	5AW4	3.00	5Z4	4.40	6AR11	4.28	6BK7/A/B	5.25	6CK3/6CL3	4.20
4BU8	3.12	5AX4	5.00	5Z4G	4.40	6AS5	2.88	6BK8/EF83	3.00	6CK4	3.50
4BX8	2.50	5AZ4	2.70	6A3	18.00	6AS6	4.71	6BL4	2.50	6CK5/EL41	4.20
4BZ6/4JH6	4.00	5B8	2.19	6A4	7.20	6AS6W	see 5725	6BL7GTA	6.81	6CK6/EL83	11.40
4BZ7	see 4BQ7A	5BC3/A	4.85	6A5G	15.00	6AS7G	6.00	6BL8/6LN8	4.17	6CL3	see 6CK3
4C22	see HF-100	5BE8	3.72	6A6	6.00	6AS7GA	6.00	6BM8/ECL82	5.00	6CL5	6.00
4C35A	45.00	5BK7A	1.77	6A7	4.88	6AS8	3.00	6BN4A	4.26	6CL6	5.04
4CB6/4DE6	3.68	5BQ7A/5BZ7	2.70	6A8	4.50	6AS11	4.77	6BN5/EL85	4.20	6CL8A	5.01
4CE5	see 4BC5	5BR8/5FV8	4.41	6A8G	5.50	6AT6/6BK6	2.40	6BN6/6KS6	5.01	6CM3/6DN3	5.06
4CS6	2.95	5BT8	1.62	6A8GT	4.50	6AT8/A	4.11	6BN7	6.00	6CM4/EC86	4.32
4CX250B/7203	70.00	5BW8	3.18	6AB4/EC92	3.50	6AU4GTA	5.01	6BN8	7.31	6CM5	9.00
4CX250F	70.00	5BZ7	see 5BQ7A	6AB5/6N5	9.00	6AU5GT	5.34	6BN11	7.97	6CM6	4.26
4CX250FG	70.00	5C22	75.00	6AB7	3.36	6AU6/A/EF94	3.81	6BQ5/EL84	4.49	6CM7	3.65
4CX300A	see 8167	5C68	4.41	6AB8/ECL80	1.92	6AU6WA	see 6136	6BQ6GTB/6CU6	4.08	6CM8	3.96
4CX300B	190.00	5CL8A/5BR8	4.41	6AC5G	4.50	6AUV7A	2.40	6BQ7A	see 6BC8	6CN6	15.00
4CY5	1.62	5C08	1.07	6AC5GT	4.50	6AUB8/A/6BH8	5.43	6BR3/6RK19	2.00	6CN7	3.41
4D21	see 4-125A	5CM8	1.71	6AC7	4.08	6AV5GA	4.86	6BR5/EM80	4.89	6CQ4/6DE4	3.50
4D22	75.00	5CU4	9.00	6AC7GT	4.08	6AV5GT	4.86	6BR7	19.00	6CQ6/EF92	3.99
4DE6	see 4CB6	5CZ5	2.36	6AC10	6.09	6AV6/EBC91	2.88	6BR8A/6FV8	4.71	6CQ8	3.86
4DK6	3.68	5D22	see 4-250A	6AD4	6.10	6AV11	2.07	6BS3A	5.00	6CR6	1.80
4DT6A	3.81	5D8H	2.99	6AD5	5.93	6AW8A	4.41	6BS7	8.00	6CS6/EH90	4.23
4E27/257B	45.00	5DJA	2.40	6AD6G	16.00	6AX3	3.08	6BS8	5.31	6CS7	4.14
4E27A/5-125B180.00		5E48/5GH8A	5.70	6AD7G	5.10	6AX4GTB	3.84	6BT4	2.88	6CT3	9.00
4EH7/LF183	3.66	5EH8	2.00	6AD8/6DC8	4.14	6AX5GT	4.92	6BU6	see 6BF6	6CT7/EA42	4.44
4EJ7/LF184	4.73	5ES8	2.50	6AD10	9.00	6AX6G	9.00	6BU8	5.25	6CU5	4.17
4ES8	1.95	5EUB	1.71	6AE5G/6AF5G	6.93	6AX7	1.40	6BV7	9.00	6CU6	see 6BQ6GT
4EW6/4GM6	2.49	5EW6	5.07	6AE5GT	6.93	6AX8	4.97	6BV8	4.94	6CU7/EC42	6.00
4GJ7/4GX7	5.40	5FG5	4.00	6AE6G	4.14	6AY3B	3.90	6BV11	5.76	6CU8	3.54
4GK5	4.00	5FG7	3.00	6AETGT	9.80	6AY11	3.00	6BW3	4.05	6CV7/EBC41	3.66
4GM6	see 4EW6	5FV8	see 5BR8	6AF3	3.00	6AZ5	4.26	6BW4	3.60	6CW4/6DS4	11.21
4GS7	5.00	5GH8A	see 5E48	6AF4A/6DZ4	4.74	6AZ8	7.97	6BW8	2.13	6CW5/EL86	5.00
4GS8	3.12	5GJ7/LCF801	5.42	6AF5G	see 6AE5G	6B3	1.80	6BW11	5.76	6CW7/ECC84	3.60
4GX7	see 4GJ7	5GM6	3.42	6AF6GT	16.00	6B4G	16.50	6BX4	4.08	6CX8/6JA8	5.15
4GZ5	9.00	5GS7	6.27	6AF9	6.39	6B5	9.00	6BX6/EF80	2.51	6CY5	5.88
4HA5/4HM5	3.83	5GX6/5HZ6	3.39	6AF11	5.34	6B6G	5.50	6BY6T	6.50	6CY7	2.90
4HA7/4HC7	3.48	5GX7	3.71	6AG5	2.88	6B7	4.50	6BY7G	1.85	6CZ5	4.73
4HC7	see 4HA7	5HA7	2.00	6AG5WA	see 6186	6B8	3.51	6BY5GA	1.85	6D4	5.50
4HK5	2.00	5HB7	1.80	6AG7/6AK7	5.94	6B8G	3.51	6BY6	3.63	6D5	6.75
4HM5	see 4HA5	5HC7	1.80	6AG9	8.91	6B10	5.72	6BY7/EF85	2.76	6D6	3.70
4HM6/4JC6A	5.48	5HG8	3.00	6AG11	3.23	6BA3	2.50	6BY8	2.81	6D7	4.20
4HQ5	4.00	5HZ6	see 5GX6	6AH4GT	3.50	6BA5	6.00	6BY11	2.76	6D8G	4.20
4HR8	3.00	5J6/5MMH3	1.71	6AH6	4.41	6BA6/EF93	3.27	6BZ3	see 6BE3	6D10	4.35
4HS8/4KF8	2.25	5JK6	3.00	6AH6WA	see 6485	6BA6W	see 5749	6BZ6	4.43	6D24	2.50
4HT6	3.83	5JL6	1.95	6AH7GT	9.00	6BA7	7.14	6BZ7/6BQ7A	5.31	6DA4/A/6DM4	1.80
4JC6A	see 4HM6	5JW8	3.42	6AH9	6.54	6BA8/A	5.63	6BZ8	4.88	6DA5/EM81	4.89
4JD6A	4.80	5KD8	4.97	6AJ4	4.20	6BA11	4.88	6CA4/EC90	4.05	6DA6/EF89	6.75
4JH6	see 4BZ6	5KE8	6.42	6AJ5	2.64	6BC4	7.58	6C5	2.90	6DB5	1.80
4KE8	6.42	5KZ8	4.83	6AJ6	3.00	6BC5/6CE5	3.42	6C5G	3.60	6DB6	5.00
4KF8	see 4HS8	5LJ8	6.12	6AJ8/ECH81	4.41	6BC7	3.54	6C5GT	2.90	6DC6	6.08
4KN8	3.50	5MB8	5.45	6AK4	5.00	6BC8/6BQ7A	5.31	6C6	2.70	6DC8/EBF89	4.14
4KT6	5.42	5MMH3	see 5J6	6AK5/EF95	4.89	6BD4/A	2.70	6C7	3.90	6DE4	see 6CQ4
4LJ8	6.45	5MK9	6.90	6AK5W	see 5654	6BD5GT	2.37	6C8G	2.34	6DE6	2.42
4LU6	3.50	5R4GA	4.90	6AK6	3.20	6BD6	1.62	6C9	9.06	6DE7	5.34
4MK8	4.05	5R4GT/A/B	4.90	6AK7	see 6AG7	6BD7	4.40	6C10	5.51	6DG6GT/6W6GT	2.90
4MP12	7.00	5RK16	2.40	6AK8/EABC80	4.66	6BD7A/EB81	5.25	6CA4/EZ81	4.08	6DGT/EM85	15.00
4MP26	9.00	5TA	6.50	6AK10	5.50	6BD11	4.67	6CA5/6EH5	2.60	6DJ8/EC88	4.60
4PR60-1	200.00	5T8	1.71	6AL3/EY88	4.68	6BE3/6BZ3	4.62	6CA7(MULL)-MP22.00		6DK3/6DL3	5.49
4PR60A	200.00	5U4G	6.50	6AL5/6EB5	3.33	6BE6/EK90	3.21	6CA7(MULL)	9.12	6DK6	3.72
4PR60B/8552W200.00		5U4GB	see 5AS4A	6AL5W	see 5726	6BE6W	see 5750	6CA7/EL34	9.12	6DL3	see 6DK3
4PR65A/8187	160.00	5U8	3.26	6AL7GT	3.48	6BE7/EQ80	3.00	6CB5A	5.79	6DL4/EC88	5.93
4RHH2	see 4BC8	5U9/LCF201	4.14	6AL11	5.88	6BF5	2.25	6CB6A/6CF6	3.77	6DL5/EL95	5.48
4X150A/7034	65.00	5V3A	see 5AU4	6AMA	3.33	6BF6/6BU6	2.25	6CD3/6CG3	4.05	6DM4	see 6DA4
4X150D/7035	80.00	5V4G	4.26	6AM5/EL91	9.85	6BF7	3.00	6CD6G/6DN6	5.00	6DN3	see 6CM3
4X150G/8172	150.00	5V4GA	4.26	6AM6/EF91	5.00	6BF8	3.72	6CD6GA/6EX6	5.00	6DN6	see 6CD6G
4X500A	250.00	5V6GT	2.40	6AM8A	5.58	6BF11	5.36	6CD7/EM34	15.00	6DN7	4.91
5-125B	see 4E27A	5W4	4.37	6AN4	4.65	6BG6G/GA	7.25	6CE3	3.35	6DQ3/6DT3	7.01
5A6	4.32	5W4G	4.37	6AN5	3.69	6BH3/A	1.70	6CE5	see 6BC5	6DQ5	9.72
5AM8	3.72	5W4GT	4.37	6AN6	2.64	6BH6	3.90	6CF6	see 6CB6A	6DQ6B	6.12
5AN8	2.03	5X4G	3.60	6AN8A	4.68	6BH8	see 6AU8A	6CG3	see 6CD3	6DR4	3.39
5AQ4/GZ32	7.00	5X8	1.95	6AQ4/EC91	9.85	6BH11	5.63	6CG7/6FQ7	5.64	6DR7	5.15
5AQ5	4.97	5Y3G	4.40	6AQ5A/6HG5	3.77	6BJ3	2.01	6CG8/A	4.91	6DR8/EBF83	3.00
5AR4/GZ34	10.87	5Y3GT	4.40	6AQ6	3.05	6BJ6	5.06	6CH3/6CJ3	4.53	6DS4	see 6CW4
5AS4A/5U4GB	5.50	5Y3WGT	see 6106	6AQ7GT	2.52	6BJ7	1.80	6CH6/EL821	15.00	6DS5	2.43
5AS8	1.90	5Y3WGTB	see 6087	6AQ8/ECC85	5.73	6BJ8	4.73	6CH8	3.80	6DS8/EC83	3.90

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
6DT3	see 6DQ3	6FS5	3.90	6HU6/EM87	2.60	6KN6	7.00	6Q7GT	3.50
6DT4	3.50	6FV6	2.93	6HU8/ELL80	35.00	6KN8/6RHH8	15.00	6Q11	see 6K11
6DT5	2.43	6FV8	see 6BR8A	6HV5A	9.92	6KR8	see 6LB8	6R3/EY81	2.10
6DT6A	3.42	6FW5	2.50	6HW8	4.50	6KS6	see 6BN6	6R4	9.00
6DT8	2.93	6FW8	3.42	6HZ5/6JD5	5.93	6KT6	4.62	6R7	3.60
6DU3	9.90	6FY5/EC97	2.34	6HZ6	3.59	6KT8	6.54	6R7G	4.20
6DV4	7.31	6FY7	4.00	6HZ8	2.90	6KU8	3.00	6R7GT	4.20
6DM4B	see 6CJ3	6G5/6U5	8.91	6J4	2.90	6KV6A	12.80	6R8	4.59
6DW5	5.00	6GG6	4.50	6J5	4.20	6KV8	4.10	6RA9	5.00
6DX4	4.00	6G11	4.89	6J5G	5.00	6KX8	12.00	6RHH8	see 6KN8
6DX8/ECL84	4.70	6GA7	9.00	6J5GT	4.20	6KY8A	7.89	6RK19	see 6BR3
6DY5	5.00	6GB3A	5.57	6J6A/ECC91	3.59	6KZ8	3.99	6RP15	3.30
6DZ4	see 6AF4A	6GB5/A/EL500	6.45	6J6WA	see 6101	6L4	9.00	6RP22	4.00
6DZ7	4.40	6GB6	7.50	6J7	3.77	6L5G	3.60	6S2/A/EY87	2.64
6E5	8.91	6GB7	6.50	6J7G	3.77	6L6	12.00	6S4A	4.17
6E6	5.55	6GC5	3.60	6J7GT	3.77	6L6G	9.80	6S7	3.00
6E7	6.50	6GD7	4.00	6JB6	7.38	6L6GC(CHINA)	5.00	6S7G	3.00
6EA4/6EH4A	5.85	6GE5	7.95	6J9	3.10	6L6GC(EGG)	12.86	6S8GT	3.00
6EA5/6EV5	5.88	6GE8/7734	25.00	6J10/6Z10	8.28	6L6GC(USSR)	6.70	6SA7	3.00
6EA7/6GL7	6.71	6GF5	2.22	6J11	3.78	6L6GC/EL37	9.30	6SA7GT	3.00
6EA8	5.46	6GF7A	7.22	6JA5	13.23	6L6GWB	12.00	6SB7/Y	3.60
6EB5	see 6AL5	6GH8A	3.83	6JAB	see 6CX8	6L7	3.94	6SC7	4.35
6EB8/6GN8	6.03	6GJ5A	7.34	6JB5	see 6HE5	6L7G	3.94	6SC7GT	4.35
6EC4A	5.52	6GJ7/ECF801	5.16	6JB6A	13.27	6LB6	6.00	6SD7	4.59
6EF4/6EJ4/A	9.80	6GK5	see 6FQ5A	6JC6A	5.54	6LB8	16.20	6SD7GT	4.59
6EH4A	see 6EA4	6GK6	6.50	6JC8	3.00	6LB8/6KR8	3.71	6SF5	3.24
6EH5	see 6CA5	6GK7	2.00	6JD5	see 6HZ5	6LC8	2.91	6SF5GT	3.24
6EH7/EF183	4.40	6GL7	see 6EA7	6JD6	5.24	6LE8	6.00	6SF7	3.90
6EH8	3.12	6GM5	3.44	6JE6C/6LQ6	17.25	6LF6/6MM6	16.90	6SG7	4.35
6EJ4/A	see 6EF4	6GM6	5.84	6JE8	3.11	6LF8	5.99	6SG7GT	3.90
6EJ7/EF184	5.10	6GM8/ECC86	3.24	6JF6	8.21	6LH6A/6LJ6	8.73	6SH7	2.91
6EL4A	see 6BK4C	6GN8	see 6EB8	6JG5	3.27	6LJ6	see 6LH6A	6SH7GT	2.91
6EM5	4.41	6GQ7	1.80	6JG6A	13.93	6LJ8	6.27	6SJ7	3.50
6EM7	6.71	6GS7	4.83	6JH5	10.38	6LM8	6.83	6SJ7GT	3.50
6EN4	9.02	6GT5/A	13.95	6JH6	3.59	6LN8	see 6BL8	6SK7	3.50
6EQ7	3.03	6GU5	3.00	6JH8	6.47	6LQ6	see 6JE6C	6SK7GT	3.50
6ER5/EC95	2.30	6GU7	4.71	6JK5	8.61	6LQ8	4.92	6SK7WA	see 6137
6ES5	1.50	6GV5	5.00	6JK6	6.00	6LR6	15.25	6SL7GT	3.90
6ES6/6FD6	3.65	6GV8/ECL85	3.81	6JK8	3.45	6LR8	7.05	6SN7GTB	3.84
6ES8/ECC189	5.93	6GW8/ECL86	5.76	6JL8	4.00	6LT8	4.68	6SOT	3.50
6ET6/EF98	3.06	6GX6/6GY6	3.96	6JME	6.47	6LW8	6.34	6SQ7GT	3.50
6ET7	2.85	6GX7	4.37	6JN6	5.22	6LW6	14.50	6SR7	4.20
6EU7	10.50	6GX8	8.15	6JN8	3.63	6LX6	16.90	6SR7GT	4.20
6EU8	2.43	6GY5	6.18	6JQ6	3.00	6LX8/LCF802	3.36	6SS7	3.60
6EV5	see 6EA5	6GY6	see 6GX6	6JR6	6.47	6LY8	4.32	6ST7	3.00
6EV7	2.34	6GY8	2.93	6JS6C	12.75	6M11	7.41	6SU7GT	3.81
6EW6	5.04	6GZ5	3.77	6JT6A	9.28	6MA6	9.30	6SV7	3.00
6EW7	5.99	6H4	9.00	6JT8	6.00	6MB8	4.50	6SZ7	3.30
6EX6	see 6CD6GA	6H6	1.00	6JU6	8.07	6MD8	6.66	6T4	1.80
6EY6	2.85	6H6G	3.50	6JU8A	5.01	6ME6	11.27	6T6	3.00
6EZ5	4.43	6H6GT	2.22	6JV8	3.81	6ME8	5.50	6T7G	5.50
6EZ8	3.00	6HA5/6HM5	5.12	6JW8/ECF802	4.79	6MF8	11.25	6T8/A	2.90
6F4	9.00	6HA6/6HB6	4.13	6JX8	4.50	6MG8	4.00	6T9	2.90
6F5	4.20	6HB5	12.75	6JY8	3.50	6MH6	see 6LF6	6T10	6.68
6F5G	4.90	6HB6	see 6HA6	6JZ6	5.00	6MJ6	17.25	6U3	7.50
6F5GT	3.24	6HB7	4.95	6JZ8	6.45	6MJ8	5.50	6U4GT	3.42
6F6	4.90	6HD5	6.00	6KA4	2.00	6MK8	5.28	6U5	see 6G5
6F6G	4.90	6HD7/6HJ7	2.60	6K5G	4.90	6ML8	9.23	6UGGT	3.42
6F6GT	4.50	6HE5/6JB5	6.53	6K5GT	4.20	6MN8	6.38	6U7G	3.20
6F7	4.08	6HF5	10.91	6K6GT	2.94	6MP17	2.70	6U8A	see 6KD8
6F8G	3.54	6HF8	5.24	6K7	4.20	6MP18	3.50	6U10	5.10
6FA7	3.83	6HG5	see 6AQ5A	6K7G	4.20	6MQ8	6.00	6V3/A	2.28
6FC7	3.00	6HG8/ECF86	3.96	6KGT	4.20	6MU8	8.58	6V4/EZ80	4.90
6FD5	3.00	6HJ5	5.16	6K8	4.20	6MV8	6.92	6V5GT	9.00
6FD6	see 6ES6	6HJ7	see 6HD7	6KB6	4.20	6N4	4.59	6V6	6.50
6FD7	3.90	6HJ8	2.60	6K8GT	4.20	6N5	see 6AB5	6V6G	6.50
6FE5	3.00	6HK5	4.37	6K11/6Q11	4.08	6N6G	12.00	6V6GT	4.53
6FG5	3.50	6HL8	4.47	6KA8	5.55	6N7	5.60	6V7G	2.00
6FG6/EM84	5.50	6HM5	see 6HA5	6KD6	16.90	6N7G	5.60	6V8	3.00
6FG7	5.00	6HM6/6HT6	2.31	6KD8/6U8A	4.97	6N7GT	5.60	6V9	3.00
6FH5	4.08	6HQ5	5.78	6KE6	3.00	6N8/EBF80	6.00	6W4GT	3.15
6FH8	25.00	6HR5	2.50	6KE8	7.37	6P5G	5.50	6W5/G	3.00
6FJ7	3.60	6HR6	4.65	6KG6A/EL505	10.91	6P5GT	5.50	6W6GT	see 6DGGGT
6FM7	4.56	6HS5	10.37	6KH8/ECL800	40.00	6P7	8.00	6W7G	2.68
6FM8	2.90	6HS6	6.50	6KL8	1.50	6Q5G	6.00	6X2/EY51	4.50
6FQ5A/6GK5	5.94	6HS8	5.45	6KM6	9.92	6Q7	3.50	6X4/EZ90	3.57
6FQ7	see 6CG7	6HT6	see 6HM6	6KM8	2.52	6Q7G	4.85	6X4WA	see 6202
								6X5GT/EZ35	3.81
								6X8/A	4.62
								6X9/ECF200	5.28
								6Y5	5.00
								6Y6G	3.00
								6Y6GA/GT	3.00
								6Y7G	4.85
								6Y9/EFL200	3.90
								6Z10	see 6J10
								6Z4/84	5.00
								6Z5/12Z5	3.54
								6Z7G	4.76
								6ZY5G	3.60
								7A4/XXL	4.20
								7A5	3.00
								7A6	3.60
								7A7	3.12
								7A8	3.12
								7AD7	3.60
								7AF7	9.60
								7AG7/7AH7	3.75
								7AH7	see 7AG7
								7AJ7	9.10
								7AK7	3.90
								7AN7/PCC84	4.00
								7AU7	1.70
								7B4	3.30
								7B5	2.76
								7B6	3.30
								7B7	7.00
								7B8	2.58
								7C4/1203A	4.02
								7C5	7.20
								7C6	5.50
								7C7	4.02
								7D4	4.50
								7DJ8/PCC88	2.58
								7E5/1201	3.48
								7E6	3.30
								7E7	2.64
								7EK7/7FC7	3.00
								7EY6	3.30
								7F7	7.00
								7F8	7.00
								7FC7	see 7EK7
								7G7/1232	4.02
								7G8	4.02
								7G9	5.43
								7MP18	3.00
								7N7	7.00
								7Q7	3.30
								7R7	3.30
								7S7	see 7J7
								7T7	4.30
								7V7	4.30
								7W7	3.30
								7X6	3.30
								7X7/XXFM	3.30
								7Y4	2.34
								7Z4	3.00
								8A8/9A8/9U8	2.07
								8AC9	3.00
								8AC10	5.70
								8AL9	8.61
								8AR11	9.33
								8AU8A/8BA8A	1.80
								8AV11	5.00
								8AW8A	5.55
								8B8	6.47
								8B10	5.00

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
8BA8A	see 8AU8A	10FD7	see 10DR7	12AV7	5.54	12EG6	1.80	12SW7	4.00	16Y9	9.00
8BA11	7.47	10GF7A	5.94	12AW6	1.26	12EH5	see 12CA5	12SX7GT	3.00	17	9.50
8BH8	6.00	10GK6	5.16	12AX3	3.14	12EK6	see 12EA6	12SY7	6.72	17A8/19EA8A	3.00
8BM11	7.53	10GN8	see 10EB8	12AX4GTB	1.90	12EL6	2.25	12T10	8.54	17AB10/17X10	5.88
8BN8	2.36	10GV8/LCL85	3.90	12AX7A/7025	4.85	12EM6	2.70	12U7	1.80	17AB9	2.50
8BN11	5.50	10HF8/10LZ8	3.50	12AX7A/ECC83	3.03	12EN6	2.34	12V6GT	3.60	17AV56A	4.86
8BQ5	1.90	10JA5	7.67	12AY3A	3.39	12EQ7	3.00	12W6GT	3.84	17AX3	2.25
8BQ11	6.41	10JA8	3.90	12AY7	4.00	12EZ6	1.92	12W7	see 12SR7	17AX46TA	3.00
8BU11	8.58	10JT8/10LY8	6.75	12AZ7A	4.41	12F5	3.00	12X4	1.91	17AY3/A	3.90
8CB11	8.29	10JY8/10LZ8	5.45	12BA4	4.50	12F5GT	3.00	12Z3	2.28	17BB14	4.00
8CG7/8FQ7	4.11	10KR8	see 10LB8	12B7/14A7	3.50	12F8	1.89	12Z5	see 6Z5	17BE3/17BZ3	4.50
8CL8	4.74	10KU8	3.39	12B8GT	7.90	12FK6	1.80	13CW4	15.00	17BF11	7.62
8CM7	1.50	10LB8/10KR8	7.10	12BA6	3.50	12FM6	1.80	13DE7	2.50	17BH3	5.00
8CN7	2.97	10LD6	8.50	12BA7	2.73	12FQ7	4.71	13DR7	4.88	17BQ6GTB	4.00
8CST	3.39	10LE8	3.00	12BB14	4.00	12FQ8	15.00	13EM7/15EA7	6.75	17BR3/A	6.33
8CW5/A/XL86	3.90	10LT8/10LW8	7.00	12BD6	1.89	12FR8	9.00	13FD7	3.54	17BS3/A	6.00
8CX8	1.95	10LW8	see 10LT8	12BE3	3.55	12FV7	4.50	13FM7/15FM7	4.50	17BW3	6.00
8CY7	2.50	10LY8	see 10JT8	12BE6	3.80	12FX5	3.93	13GB5/XL500	4.53	17BZ3	see 17BE3
8EB8/8GN8	3.39	10LZ8	see 10JY8	12BF11	8.70	12FX8A	2.73	13GF7A	8.90	17C5/17CU5	1.80
8EM5	2.90	10T10	6.18	12BF6/12BU6	2.70	12G4/12H4	3.50	13J10/13Z10	8.16	17C9	7.49
8ET7	3.90	10Z10	7.52	12BH7A	5.75	12G8	4.50	13JZ8/A	5.50	17CB24	7.25
8GJ7/PCF801	4.58	11AF9	10.37	12BK5	1.50	12GA6	5.00	13V10	3.50	17CK3	4.50
8GN8	see 8EB8	11AR11	5.31	12BL6	2.10	12GB3	2.50	13Z10	see 13J10	17CT3	5.24
8GU7	4.00	11BM8	6.66	12BN6	3.35	12GB7	6.50	14A4	3.24	17CU5	see 17C5
8HG8/PCF86	4.26	11BQ11	5.50	12BQ6GT/A/B	2.46	12GC6	3.36	14A5	3.24	17D4	2.94
8JU8A	3.34	11BT11	8.72	12BR3	1.80	12GE5	4.97	14A7	see 12B7	17DE4	2.00
8JV8	5.30	11CA11	8.00	12BR7	5.25	12GJ5A	5.00	14AF7/XXD	3.90	17DL8	see 15KY8A
8KA8	3.45	11CF11	8.00	12BS3/A	4.00	12GN7A/12HG7	6.54	14B6	4.20	17DM4A	3.00
8KR8	5.30	11CH11	10.22	12BT3	2.75	12GT5	2.25	14B8	3.24	17DQ6B/17GW6	6.65
8LC8	2.70	11CY7	4.34	12BU6	see 12BF6	12GW6	see 12DQ6B	14BL11	6.50	17DW4A	4.47
8LS6	4.43	11DS5	7.31	12BV11	6.24	12H4	see 12G4	14BR11	6.87	17EW8/HCC85	1.90
8LT8	4.64	11FY7	6.29	12BV7/12BY7A	6.50	12H6	3.87	14C5	3.42	17GE5	4.50
8SN7GTB	2.97	11HM7	6.45	12BW4	2.70	12HE7	4.50	14C7	3.50	17GJ5/A	6.00
8U9	4.00	11JE8	2.10	12BY7A	see 12BV7	12HG7	see 12GN7A	14E6	4.44	17GT5A	5.79
8X9	4.00	11KV8	6.14	12BZ6	9.50	12HL7	6.21	14E7	4.44	17GV5	4.92
9A8	see 8A8	11LQ8	5.96	12BZ7	2.31	12J5	1.62	14F7	4.44	17GW6	see 17DQ6B
9AH9	8.27	11LT8	3.51	12C5/12CU5	3.60	12J5GT	1.62	14F8	4.44	17H3	2.54
9AK8/PABC80	2.58	11LY6	12.75	12C8	3.00	12J7GT	3.12	14G6	4.00	17HB25	4.86
9AK10	3.00	11MS8	6.36	12CA5/12EH5	2.88	12J8	2.16	14GT8/14JG8	2.90	17JB6A	7.56
9AM10	6.00	11R3	3.06	12CK3/12CL3	3.90	12J86A	12.95	14GW8	3.00	17JF6	8.00
9AQ8/PCC85	4.50	11Y9/LFL200	3.66	12CL3	see 12CK3	12JF5	17.92	14H7	3.48	17JG6	9.27
9AU7	1.65	12A	15.00	12CN5	1.80	12JN6/A	3.50	14J7	3.48	17JG6A	5.00
9BU11	4.65	12A4	2.90	12CR6	2.90	12JN8	1.89	14JG8	see 14GT8	17JK8	2.94
9BR7	1.80	12A5	4.05	12CS6	2.91	12JQ6	8.75	14K7	4.50	17JM6	7.20
9CL8	2.22	12A6	3.05	12CT3	5.73	12JT6A	5.03	14L7/UBC41	4.50	17JN6	6.50
9D7	9.00	12A7	4.80	12CT8	3.48	12K5	3.54	14M7	3.12	17JQ6A	10.50
9EA8	1.80	12A8G	3.35	12CU5	see 12C5	12K7G	3.90	14Q7	3.48	17JTA6	4.11
9ED4	4.50	12A8GT	2.34	12CX6	1.80	12K7GT	3.12	14R7	3.50	17JZ8	6.60
9GH8A	4.68	12AB5	4.28	12D4/12DM4	1.80	12K8	3.12	14S7	3.48	17KV6A	9.27
9GV8	2.00	12AC5/UUF41	6.75	12DA6/UUF89	4.00	12K8GT	3.12	14W7	3.48	17KW6	8.00
9JW8	4.43	12AC6	1.16	12DB5	1.89	12KL8	3.00	14X7	3.48	17L6GT	2.95
9KC6	1.80	12AC10A	7.22	12DE8	1.80	12L6GT	2.04	14Y4	3.20	17LD8	9.00
9KX6	see 7KY6	12AD6/12AG6	1.80	12DF7/12DT7	3.00	12L8GT	3.36	15	15.00	17R5	4.00
9KZ8	2.00	12AD7	7.50	12DK6	3.60	12MD8	6.29	15A6/PL83	3.50	17W6GT	3.00
9LA6	1.75	12AE6A	3.35	12DK7	3.00	12Q7G	3.42	15AF11A	4.00	17X10	see 17AB10
9MHH3	7.50	12AE7	4.14	12DL8	3.42	12Q7GT	3.42	15BD11A	6.68	17Y9	9.92
9ML8	8.55	12AE10	6.75	12DM4	see 12D4	12R5	1.50	15CW5/PL84	5.19	17Z3/PY81	3.00
9MN8	8.00	12AF3	2.75	12DM7	4.00	12S7	3.36	15DQ8/PCL84	4.70	18	5.00
9MP12	2.00	12AF6	1.70	12DQ4	4.50	12S8GT	2.46	15E	6.00	18A5	2.93
9RA6	2.00	12AG6	see 12AD6	12DQ6B/12GW6	5.85	12SA7	4.00	15EA7	see 13EM7	18AJ10	2.50
9RAL1	4.50	12AH7GT	2.58	12DQ7	3.90	12SA7GT	4.00	15EW6	4.70	18DZ8	6.00
9RRH2	2.00	12AH8	9.00	12DS7	3.36	12SC7	3.00	15FM7	see 13FM7	18FW6A	1.67
9UB	see 8A8	12AJ6	1.58	12DT5	1.90	12SF5	3.78	15FY7	3.11	18FX6A	1.50
9V9	5.00	12AJ7	3.90	12DT7	see 12DF7	12SF5GT	3.78	15HB6	3.00	18GB5	4.00
10	14.00	12AL5	3.03	12DT8	4.97	12SF7	5.31	15KY8A/17DL8	4.64	18GD6A	2.00
10AL11	2.36	12AL8	1.92	12DU7	2.04	12SG7	4.88	15LE8	3.00	18GV8	5.00
10BQ5	2.00	12AL11	4.65	12DV7	3.35	12SH7	5.76	15MF8	8.27	18RAL1	3.00
10C8	2.90	12AQ5	2.55	12DV8	3.57	12SJ7	3.60	16A8/PCL82	8.21	19	4.80
10CW5/LL86	3.66	12AS5	3.60	12DMAA	3.00	12SJ7GT	3.60	16AK9	8.85	19A3	2.00
10DA7	3.90	12AT6/HBC90	3.30	12DW7/7247	7.31	12SK7	3.90	16AQ3/XY88	4.58	19AQ5	5.00
10DE7	4.69	12AT7/ECC81	3.35	12DW8	2.76	12SK7GT	3.90	16BQ11	1.92	19AU46TA	4.13
10DR7/10FD7	3.00	12ATT7A	see 6201	12DY8	2.10	12SL7GT	3.50	16BX11	2.25	19BG66/GA	4.20
10DX8/LCL84	3.96	12AU6	3.66	12DZ6/12EA6	1.80	12SN7GT/A	3.00	16FX6A	2.13	19BR5	5.00
10EB8/10GN8	5.57	12AU7A/ECC82	3.00	12E5GT	4.80	12SQ7	4.90	16GY5	3.90	19C8	2.19
10EG7	3.39	12AU7MA	see 7730	12EA6	see 12DZ6	12SQ7GT	4.90	16KA6	5.00	19CG3	5.54
10EM7	1.95	12AV56A	2.75	12EC8	2.37	12SR7/12W7	3.78	16KG6	3.00	19CL8A/19JN8	3.53
10EW7	4.50	12AV6	3.30	12ED5	2.31	12SR7GT	3.78	16LUBA	9.92	19D8/UCH81	2.22

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
19DE3	4.73	25DK3	3.90	35LR6	10.76	75TH	75.00	452A	120.00	865	20.00
19DK3	5.70	25DK4	2.80	35T	85.00	75TL	75.00	471A	10.00	866A	19.00
19DQ3	6.66	25DN6	3.78	35W4	20.00	76	5.50	510AX	11.00	868	18.00
19E8A	see 17A8	25DQ6A	3.00	35W4	2.58	77	3.90	512AX	12.00	869B	125.00
19EZ8	3.47	25E5/PL36	4.00	35Y4	2.73	78	3.90	522AX	see 6088	872/A	30.00
19FL8	3.50	25EC6	5.00	35Z3	3.60	79	4.20	533AX	12.00	873	55.00
19FX5	5.00	25EH5	3.33	35Z4GT	3.60	80	7.85	534AX	10.00	874	10.00
19GQ7	2.43	25F5	2.40	35Z5GT	3.66	81	5.25	548DX	see 6418	878A	15.00
19HR6	2.00	25HX5	7.26	35Z6G	5.00	82	8.00	572B/160L	85.00	884	9.00
19HS6	1.30	25JZ8	8.50	36	5.40	83	9.00	573AX	see 6029	885	6.00
19HV8	6.03	25L6GT	4.62	36AM3B	2.88	83A1	see 7980	573AXB	see 6029	886	12.00
19J6	2.10	25N6G	3.78	36KD6/40KD6	17.60	83V	6.00	575A	55.00	902	7.00
19JN8	see 19CL8A	25T	65.00	36LW6	11.88	85	4.20	576A	65.00	917	24.00
19KG8	2.00	25M4GT	2.00	36MC6	19.50	89Y	4.20	579B	45.00	918	23.00
19LF8	4.00	25Y5	3.85	37	4.20	90C1	5.00	604L/7015	60.00	919	33.00
19O9	2.00	25Z5	3.54	38	3.60	100TH	30.00	615/7018	28.00	920	15.00
19T8	6.10	25Z6GT	3.33	38A3	3.60	100TL	160.00	629	95.00	921	6.00
19Y8	4.20	26	6.50	38HE7/38HK7	9.83	117L7	6.00	631P1	45.00	922	12.00
19X8	2.10	26A6	5.52	38HK7	see 38HE7	117N7	6.47	672A	95.00	923	20.00
19Y3	3.90	26A7GT	5.88	39/44	3.60	117P7GT	5.40	673	70.00	925	20.00
20AQ3/LY88	4.31	26AQ8	3.00	40	7.50	117Z3	4.20	702A	9.00	926	10.00
20EZ7	2.79	26C6	6.00	40KD6	see 36KD6	117Z4GT	4.20	705A	9.00	927	15.00
20LF6	16.39	26D6	6.00	40KG6A	11.34	117Z6GT	4.50	710/6011	70.00	928	5.00
21A6/21B6	6.00	26FZ6	4.00	41	5.50	124A	30.00	715C	50.00	929	12.00
21B6	see 21A6	26HU5	8.61	42	9.50	152TH	60.00	716	45.00	930	9.00
21EX6	4.50	26LW6	17.50	42EC4	7.76	152TL	50.00	717A	20.00	931A	18.00
21GY5	3.90	26LX6	8.61	42KN6	8.67	160L	see 572B	719A	95.00	932	see 1229
21HB5A	11.90	26Z5W	7.50	43	5.40	203A	90.00	723A/B	18.00	934	16.00
21HJ5	8.00	27	4.80	45	25.00	203Z	90.00	724B	35.00	935	40.00
21JS6A	10.91	27GB5/PL500	6.47	45A5/UL41	6.95	204A	75.00	726B	8.00	936	2.50
21JV6	3.50	28D7/W	4.20	45B5/UL84	3.36	211(VT-4C)	30.00	740	see 6856	941	10.00
21JZ6	7.76	28Z5	3.00	45Z3	1.80	239A	16.00	741	70.00	950	9.00
21KA6	9.90	29EK6	4.00	45Z5GT	3.36	249B	30.00	760	see 6858	951	9.00
21KE6	5.00	29GK6	2.50	46	4.70	250TH	120.00	800	15.00	954	6.95
21KQ6	7.00	29KQ6	11.85	47	8.40	250TL	60.00	801A	15.00	955	4.50
21LG6A	8.69	29LE6	8.78	48	8.40	253A	18.00	802	7.00	956	8.00
21LR8	6.29	30	5.40	49	5.40	254W	170.00	803	20.00	957	6.95
21LU8	6.30	30A5	6.00	50	47.00	257B	see 4E27	804	15.00	958	8.00
22	7.00	30AE3/PY88	6.83	50A1	20.00	259A	25.00	805	15.00	959	9.00
22BH3A	2.54	30AG11	4.00	50A1 TR	8.45	262B	15.00	806	45.00	991	2.00
22BW3	4.05	30JZ6	11.85	50A5	3.51	304TH	120.00	807	7.00	1000T	350.00
22DE4	4.38	30KD6	9.35	50B5	2.88	304TL	150.00	807W	see 5933	1005	12.00
22JF6/22KM6	9.75	30MB6	9.12	50B8/UCL82	2.37	306A	12.00	808	20.00	1006	15.00
22JG6A	6.86	30MP23	9.80	50C5	3.03	310A	11.00	809	20.00	1007	2.00
22JR6	7.00	30MP27	7.00	50C6G	4.14	311B	12.00	810	90.00	1027/6174	15.00
22JU6	8.19	31	4.80	50CD6G	6.00	312A	15.00	811A	25.00	1028	25.00
22JF6	see 22JF6	31A3/YU41	8.00	50DC4	2.22	323A	10.00	811A(CHINA)	14.50	1036/6436	9.00
22KV6A	7.68	31AL10	5.50	50EH5	4.40	323B	30.00	812/A	40.00	1038	9.00
23JS6A	10.91	31JS6C	10.13	50FE5	3.60	329A	17.00	813	30.00	1039	see 6438
23Z9	6.03	31LQ6	10.71	50FK5	2.00	332A	20.00	814	25.00	1089	5.00
24A	5.40	31LR8	8.01	50FY8	3.50	338A	10.00	815	15.00	1201	see 7E5
24BF11	4.00	31LZ6	17.25	50HC6	3.50	352A	25.00	816	15.00	1203A	see 7C4
24G/3C24	45.00	32	4.80	50HK6	3.54	354A	60.00	822	18.00	1218A/8334	4.50
24JE6C/24LQ6	9.92	32ET5A	1.90	50HN5	9.00	371B	20.00	826	40.00	1229/932	14.00
24JZ8	4.86	32H7	4.90	50JY6	3.50	393A	25.00	828	75.00	1232	see 767
24LQ6	see 24JE6C	32L7	4.70	50L6GT	4.95	394A	20.00	829B	8.00	1247	5.00
25A6	3.84	33	4.20	50X6	3.75	396A	5.00	830B	20.00	1273	4.50
25A6G	3.84	33G7	5.00	50Y6GT	2.90	398A	10.00	832A	8.00	1291	2.00
25A7G	5.52	33GY7A	8.97	50Y7GT	4.00	399A/B	12.00	833A	95.00	1294	1.70
25A7GT	5.52	33JR6	7.50	50Z7G	7.00	400A/B	12.00	834	14.00	1299	2.25
25AC5GT	4.44	33JV6	3.00	52	9.00	401A	see 5590	836	19.00	1500T	400.00
25AQ8	4.00	34	4.20	53	11.00	403B	see 5591	837	8.00	1603	8.00
25AV5GA	7.34	34CD3/34CE3	3.78	53HK7	7.89	404A	see 5847	838	30.00	1608	5.00
25AV5GT	7.34	34CE3	see 34CD3	55	4.80	407A	6.00	840/8754	25.00	1609	8.00
25AX4GT	3.80	34DK3	8.42	56	3.60	408A	3.00	841	15.00	1611	7.00
25B5	9.00	34GD5A	1.11	57	4.50	415A	4.50	842	20.00	1612	3.94
25B6G	5.52	34R3	3.00	58	4.50	417A	see 5842	843	15.00	1613	7.70
25B8GT	9.00	35/51	4.90	58HE7	9.00	418A	5.00	845	80.00	1614	18.00
25BK5	1.62	35A5	4.20	59	6.00	420A	9.00	848	33.00	1616	8.00
25BQ6GA	2.60	35B5	1.80	60FX5	2.46	422A	30.00	849	95.00	1619	9.00
25C5	4.58	35C5	3.18	60HL5	3.00	426A	8.00	850	60.00	1620	11.00
25C6G	4.08	35DZ8	3.50	65	9.00	427A	5.00	851	190.00	1621	6.00
25CA5	4.44	35EH5	3.08	70A7GT	4.50	429A	9.00	852	45.00	1622	16.00
25CD6GB	4.86	35G6	4.41	70L7GT	4.80	443A	6.00	857B	200.00	1624	16.00
25CG3	5.10	35HB8	2.10	71A	9.00	446A	15.00	860	85.00	1625	4.50
25CK3	3.90	35JV6	2.50	75	6.85	450TH	400.00	861	150.00	1626	3.00
25CT3	2.00	35L6GT	3.90	75C1	9.00	450TL	400.00	864	8.50	1629	4.95

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
1631	9.00	5726/6AL5W	2.50	6044	18.00	6489/EA76	10.00	7058	6.30	7984	12.50
1632	3.00	5727/2D21	3.00	6046	8.00	6520	20.00	7059	5.00	8000	20.00
1633	5.00	5728/FG-67	110.00	6060	5.00	6525	7.00	7060	5.50	8005	65.00
1635	5.00	5744	11.00	6063	3.00	6528/A	60.00	7061	3.30	8008	70.00
1641	3.00	5749/6BA6W	3.27	6072A	4.85	6542	35.00	7062	9.00	8012/A	30.00
1649	2.00	5750/6BE6W	3.50	6073	4.50	6550(ECG)	19.00	7077	95.00	8013/A	55.00
1684	4.00	5751	6.40	6074	5.00	6550A(CHINA)	14.90	7094	170.00	8020	20.00
1851	7.00	5755	18.00	6076	400.00	6550A(CH)MP	33.80	7105	6.00	8025/A	16.00
1853	8.00	5763	12.00	6080	9.00	6570	25.00	7117	29.00	8032A/8552	9.00
1960	8.00	5765	45.00	6082/A	11.00	6587	200.00	7119/E182CC	13.00	8037/5031	30.00
2000T	300.00	5783	8.00	6084/E80F	17.00	6591	65.00	7167	4.00	8042	8.00
2022	17.00	5784	24.00	6085/E88CC	14.00	6660/6BA6	3.27	7189/A	6.90	8056	24.00
2050A	9.90	5785	5.00	6087/5Y3WGTB	5.00	6661/6BH6	7.31	7191	6.00	8058	30.00
2051	7.88	5787	10.00	6088/522AX	8.00	6662/6BJ6	3.00	7193/2C22	8.00	8068	7.00
2426	32.00	5796	35.00	6094	35.00	6663/6AL5	3.33	7199	15.00	8072	50.00
4028/A	95.00	5797	5.00	6096/6AK5W	2.00	6664/6AB4	3.50	7203	see 4CX250	8102	2.50
4046A	30.00	5803	20.00	6099	3.59	6669/6AQ5A	3.77	7233	11.00	8106	7.00
4062A	20.00	5814A	3.75	6101/6J6WA	3.59	6676/6CB6A	3.77	7235	45.00	8116A	40.00
4657	70.00	5823	7.50	6106/5Y3WGT	12.00	6677/6CL6	3.50	7239	70.00	8117A	95.00
4848	25.00	5824	18.00	6108	20.00	6678/6UB8	4.97	7242	140.00	8121	80.00
5031	see 8037	5829	13.00	6111	7.00	6679/12AT7	3.90	7247/12DW7	9.80	8122	150.00
5092	see 8421	5839	7.50	6112	6.50	6680/12AU7A	3.00	7258	4.00	8134	350.00
5516	19.00	5840	12.00	6130	95.00	6681/12AX7A	3.03	7308/E188CC	6.00	8136	3.00
5517	14.00	5841	27.00	6135	3.50	6686/E81L	8.00	7316	6.00	8156	12.00
5528/C6L	70.00	5842/417A	8.00	6136/6AU6WA	4.00	6687	8.00	7320	14.00	8163	see 3-400Z
5541	3.75	5844	5.00	6137/6SK7WA	4.00	6688/E180F	9.00	7348	9.00	8165	see 4-65A
5545	120.00	5845	5.00	6143	25.00	6689/E83F	12.00	7355	13.00	8167/4CX300A150.00	
5557/FG-17	30.00	5847/404A	13.00	6146A	9.00	6694/A	12.50	7360	25.00	8172	see 4X150G
5558/FG-32	30.00	5852	9.00	6146B(CHINA)	9.00	6701	10.00	7377	9.00	8187	see 4PR65A
5560	90.00	5853	65.00	6146B/8298A	16.50	6771	65.00	7408/6V6GT	4.53	8223/E288CC	15.00
5581	18.00	5857	45.00	6155	85.00	see 4-400C	4.00	7410	16.00	8228/Z11000	9.00
5582	25.00	5869/9950	50.00	6159A	7.00	6802	13.00	7486	95.00	8233	10.00
5583	18.00	5875	14.00	6159B	12.00	6808	95.00	7533	28.00	8236	19.00
5590/401A	3.50	5876A	25.00	6173	12.00	6816	70.00	7534	40.00	8254	15.00
5591/403B	8.00	5879	10.00	6174	see 1027	6829	12.00	7536	2.00	8255/E88C	15.00
5610	6.00	5881/6L6WGB	12.00	6179	900.00	6832	28.00	7543/E130LF	4.53	8278	20.00
5618	4.00	5886	20.00	6186/6AG5WA	5.90	6833	15.00	7548	30.00	8295A/PL172	490.00
5632/C3J	35.00	5889	40.00	6189/12AU7A	3.00	6842	50.00	7551	9.00	8298A	see 6146B
5636	8.00	5893	200.00	6197	4.00	6844A	30.00	7553	50.00	8334	see 1218A
5639	8.00	5894	see AX9903	6201/12AT7WA	3.90	6850	60.00	7554	80.00	8393	15.00
5641	8.00	5894A	35.00	6202/6X4WA	4.00	6856/740	45.00	7558	10.08	8417	16.00
5642	8.00	5894B	35.00	6203	10.00	6858/760	75.00	7581A	13.80	8421/5092	33.00
5643	8.00	5896	8.00	6205	5.00	6877	40.00	7583	8.00	8422	30.00
5644	20.00	5899	8.50	6206	15.00	6883B/8552	12.00	7586	24.00	8425A/6AU6A	3.00
5647	17.00	5901	5.00	6211A	4.00	6884	70.00	7587	30.00	8438	see 4-400A
5651A	3.45	5902	8.00	6213	7.00	6887	8.50	7591A	11.90	8457	12.00
5652	12.00	5903	5.00	6216	7.00	6888	19.00	7643	20.00	8458	20.00
5653	15.00	5904	9.00	6227	60.00	6897	90.00	7687	6.00	8503	250.00
5654/6AK5W	2.95	5905	9.00	6236	90.00	6901	20.00	7693	12.00	8505A	95.00
5656	15.00	5906	9.00	6247	13.50	6906/MCT26	95.00	7694	11.00	8507A	80.00
5661/12SK7	4.90	5907	14.00	6252	35.00	6907	55.00	7695	4.70	8509	18.00
5662	5.00	5908	14.00	6263A	35.00	6909	15.00	7699	20.00	8532	5.00
5663	3.00	5915	4.50	6265	6.00	6910	20.00	7701	7.00	8536	130.00
5665/C16J	90.00	5920/E90CC	9.00	6267/EF86	3.50	6919	5.00	7710/Z70U	8.00	8538	175.00
5670/2C51W	4.00	5924	300.00	6279	190.00	6922/E88CC	6.10	7716	4.50	8541	20.00
5672	4.00	5931	7.00	6281	5.00	6923/EA52	60.00	7717	4.00	8552	see 6883B
5675	30.00	5932/6L6WGB	12.00	6293	12.00	6931	1.50	7719	15.00	8552W	see 4PR60B
5676	7.50	5933/807W	12.00	6299	325.00	6939	25.00	7722/E280F	18.00	8560A	45.00
5678	4.00	5961	60.00	6336B	85.00	6947	13.00	7728	2.00	8566	20.00
5679	9.00	5963/12AU7A	3.00	6345	4.00	6955	7.00	7730/12AU7WA	4.00	8608	30.00
5685/C6JA	65.00	5964	3.25	6350	2.70	6957	10.00	7734	see 66E8	8643	40.00
5686	9.00	5965/A	2.90	6354	10.00	6973	12.00	7737/E186F	15.00	8727	55.00
5687	3.50	5971	14.00	6360	5.25	6977	13.00	7754	6.00	8737	see 5894B
5690	55.00	5972	4.00	6374/EY84	12.00	6987	5.00	7788/E810F	25.00	8753	40.00
5691	12.00	5977	8.00	6384	85.00	7015	see 604L	7802	20.00	8754	see 840
5692	12.00	5980/BS2	40.00	6386	11.00	7018	see 615	7843	50.00	8758A	45.00
5693	12.00	5987	10.00	6397	7.50	7025	see 12AX7A	7854	70.00	8908	18.00
5694	7.00	5992	4.53	6414	4.00	7027A	16.40	7861	7.00	8950	19.90
5696/A	4.00	5998	8.00	6417	7.00	7034	see 4X150A	7868	13.87	9001	1.00
5702	9.00	6005	4.85	6418/548DX	12.00	7035/4X1500	85.00	7894	19.00	9002	6.00
5703	8.00	6007	6.00	6436	see 1036	7036	7.70	7895	12.00	9003	6.00
5704	9.00	6011	see 710	6438/1039	7.00	7038	195.00	7898	8.00	9004	6.00
5718/A	8.50	6012	70.00	6442	20.00	7044	6.00	7905	15.00	9005	8.00
5719	8.00	6014	see C1K	6463	4.00	7054	4.50	7911	250.00	9006	3.50
5721	70.00	6021	7.50	6467	190.00	7055	3.50	7913	300.00	9950	see 5869
5722	6.00	6026	8.00	6476A	40.00	7056	6.30	7963	5.00	A59RX	15.00
5725/6AS6W	4.25	6029/573AX	7.00	6485/6AH6WA	3.00	7057	5.00	7980/83A1	40.00	A2134	30.00

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
A2426	30.00	E182CC	see 7119	ECH81	see 6AJ8	EL86	see 6CW5	HP45B	85.00
A2900	3.00	E186F	see 7737	ECH83	see 6DS8	EL91	see 6AM5	HY-40Z	7.00
AX9903/5894	30.00	E188CC	see 7308	ECL80	see 6AB8	EL95	see 6DL5	HY-51Z	10.00
AZ11	5.00	E280F	see 7722	ECL82	see 6BM8	EL500	see 6G85	HY-60	7.00
AZ41	7.00	E288CC	see 8223	ECL83	6.00	EL505	see 6KG6A	HY-69	4.00
AZ426	35.00	E810F	see 7788	ECL84	see 6DX8	EL821	see 6CH6	HY-75	8.00
B5031	30.00	EA50	see 2B35	ECL85	see 6GV8	ELL80	see 6HU8	HY-615	5.00
BS2	see 5980	EA52	see 6923	ECL86	see 6GW8	EM34	see 6C07	KT-61	7.00
BX4001	30.00	EA76	see 6489	ECL113	7.50	EM35	9.80	KT-88(CHINA)	20.00
C18	see 3C31	EACB80	see 6AK8	ECL1800	see 6KH8	EM71	9.80	KU-610	75.00
C1K/6014	35.00	EAF42	see 6CT7	EF37A	9.50	EM80	see 6BR5	LCF201	see 5U9
C3J	see 5632	EAF801	8.00	EF40	4.68	EM81	see 6DA5	LCF801	see 5GJ7
C6JA	see 5685	EBC33	6.75	EF41	see 6CJ5	EM84	see 6F66	LCF802	see 6LX8
C6L	see 5528	EBC41	see 6CV7	EF42	6.00	EM85	see 6DG7	LCL84	see 10DX8
C16J	see 5665	EBC81	see 6BD7A	EF50	3.85	EM87	see 6HU6	LCL85	see 10GV8
C1148	90.00	EBC91	see 6AV6	EF80	see 6BX6	EMM801	23.50	LF183	see 4EH7
C1149	50.00	EBCF83	see 6DR8	EF83	see 6BK8	EQ80	see 6BE7	LF184	see 4EJ7
C1166	50.00	EBF89	see 6DC8	EF85	see 6BY7	EY51	see 6X2	LF1200	see 11Y9
DAF91	see 1S5	EC86	see 6CM4	EF86	see 6267	EY81	see 6R3	LL86	see 10CW5
DC90	6.50	EC88	see 6DL4	EF89	see 6DA6	EY84	see 6374	LY88	see 20AQ3
DC909	see 3A5	EC90	see 6C4	EF9	9.00	EY87	see 6S2	M-2057	22.50
DF92	see 1L4	EC91	see 6AQ4	EF91	see 6AM6	EY88	see 6AL3	M-5039	50.00
DF97	see 1AN5	EC92	see 6AB4	EF92	see 6C06	EZ35	see 6X5GT	ML-381	9.00
DK91	see 1R5	EC95	see 6ER5	EF93	see 6BA6	EZ41	4.68	NL716	20.00
DK92	see 1AC6	EC97	see 6FY5	EF94	see 6AU6	EZ80	see 6V4	PABC80	see 9AK8
DK96	see 1AB6	ECC33	6.80	EF95	see 6AK5	EZ81	see 6CA4	PCC84	see 7AN7
DL92	see 3S4	ECC40	7.50	EF98	see 6ET6	EZ90	see 6X4	PCC85	see 9A08
DL94	see 3V4	ECC81	see 12AT7	EF183	see 6EH7	FG-17	see 5557	PCC88	see 7DJ8
DL96	see 3C4	ECC82	see 12AU7A	EF184	see 6EJ7	FG-27A	30.00	PCF86	see 8HG8
DM70	see 1M3	ECC83	see 12AX7A	EF800	3.90	FG-32	see 5558	PCF801	see 8GJ7
DM71	see 1N3	ECC84	see 6CW7	EFL200	see 6Y9	FG-67	see 5728	PCL82	see 16A8
DR2020	8.00	ECC85	see 6AQ8	EH90	see 6CS6	FG-105	120.00	PCL83	4.97
DR2100	7.00	ECC86	see 6GM8	EK90	see 6BE6	FM1000	6.75	PCL84	see 150Q8
DY87	see 1S2	ECC88	see 6DJ8	EL1C	see 3B22	GZ32	see 5AQ4	PL21	see 2021
E-1148	2.00	ECC91	see 6J6A	EL12	9.00	GZ33	9.90	PL36	see 25E5
E80FC	see 6085	ECC189	see 6E58	EL3C/4B24	48.00	GZ34	see 5AR4	PL83	see 15A6
E80FF	see 6084	ECC808	12.00	EL34	see 6CA7	HBC90	see 12AT6	PL84	see 15CW6
E81L	see 6686	EFC83	8.50	EL37	see 6L6GC	HCC85	see 17EW8	PL172	see 8295A
E83F	see 6689	ECF86	see 6HG8	EL41	see 6CK5	HF-60	18.00	PL501	see 276B5
E88C	see 8255	ECF200	see 6X9	EL42	8.50	HF-100/4C22	22.00	PY81	see 17Z3
E88CC	see 6922	ECF801	see 6GJ7	EL81	see 6CJ6	HF-200	40.00	PY88	see 30AE3
E90CC	see 5920	ECF802	see 6JW8	EL83	see 6CK6	HF-300/T300	60.00	QKK549	200.00
E130LF	see 7543	ECH35	6.50	EL84	see 6BQ5	HK-54	17.00	RA307	5.00
E180F	see 6688	ECH42	see 6CU7	EL85	see 6BN5	HK-254	25.00	RK-34	see 2C34

() following tube type denotes a particular brand or source. For example 6L6GC (CHINA) is manufactured in China. MP means matched pair of 2 tubes.

EARLY TUBE TYPES

We try to maintain a stock of the early tubes listed below however supplies are very limited. The prices shown are for used tubes which are tested and fully guaranteed. Some new early tubes are available from time to time. We suggest that you inquire to be sure of availability.

The following listing shows the popular (RCA) three digit designation for most types. Tubes supplied may be corresponding types in other brands. For example 201A in Cunningham is 301A, etc.

Except for types shown as (ST) below, all are early globe or balloon shapes (types 199, WD-11, WD-12 and WX-12 are tubular).

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
01A(ST)	8.00	45(ST)	14.50	V201A	12.00	233	9.00	247	12.00
BH	8.50	50(ST)	35.00	X201A	8.80	234	6.00	250	47.00
BR	7.50	112A	14.50	210	18.00	235/251	4.00	256	9.00
WD-11	38.50	120	16.00	222	7.00	236	4.00	280	12.00
WD-11S	15.00	171A	12.00	224	4.00	237	10.85	281	12.00
WD-12	30.00	183/483	12.50	226	8.25	238	6.00	282	12.00
WX-12	25.00	184	12.50	227	4.70	239/244	5.70	401 KELL0G	25.00
15(ST)	9.00	V199	18.00	230	9.00	240	12.00	403 KELL0G	30.00
41	6.00	X199	16.00	231	9.00	245	19.80	481	12.00
42	12.00	200A	11.75	232	9.00	246	12.00	482	15.00

CAPACITORS



"ILLINOIS CAPACITOR" ELECTROLYTICS

Highest quality low leakage tubular electrolytic capacitors. Rated for 85°C operation. Tolerance - 10% + 50%. Order by capacity and voltage rating.

VALUE MFD.	VOLTAGE	SIZE DIA.-IN.	LG.-IN.	PRICE 1-49	50-up
10	50	.25	.49	\$.43	\$.34
22	50	.25	.63	.52	.42
33	50	.32	.63	.52	.42
47	50	.32	.63	.60	.48
4.7	160	.31	.63	.60	.48
10	160	.40	.79	.71	.57
22	160	.49	.98	.88	.70
33	160	.49	1.18	1.10	.88
47	160	.49	1.18	1.34	1.07
100	160	.63	1.18	2.10	1.68
4.7	350	.40	.98	.67	.54
10	350	.49	1.18	.74	.59
22	350	.63	1.18	1.14	.91
33	350	.63	1.57	1.40	1.12
47	350	.71	1.58	1.89	1.51
4.7	450	.49	1.18	.81	.65
10	450	.63	1.18	1.16	.93
22	450	.71	1.57	1.47	1.18
33	450	.88	1.57	1.91	1.53
47	450	.88	1.96	2.58	2.06
100	450	.98	2.36	3.80	3.04
10	500	.63	1.18	1.40	1.12
22	500	.63	1.57	1.89	1.51

HIGH VOLTAGE CAPACITORS

For early TV. 10,000 volt tested.

VALUE MFD.	VOLTAGE	SIZE-IN.	TYPE	PRICE
.0047	6,000V.	3/8 x 1 9/16	Tubular	\$4.90
.047	6,000V.	1 1/16 x 2 1/2	Tubular	6.90
.002	10,000V.	1 1/8 x 1/4	Disc	1.98

MISCELLANEOUS — Tubular, Axial Leads

VALUE MFD.	VOLTAGE	DESCRIPTION	SIZE-IN.	PRICE
.0022	1000	Ceramic Tube	5/16 x 1 1/8	\$.40
.0033	1000	Plastic Molded	3/8 x 1 3/16	.40
.033	1000	Ceramic Tube	1/2 x 1 5/8	.45
.1	1000	Mylar	15/32 x 1	.60
.15	1000	Mylar	5/8 x 2 1/8	.80
.0122	1500	Mylar	3/8 x 1 5/8	.40
.068	1500	Ceramic Tube	3/4 x 1 5/16	.48
.0033	1600	Ceramic Tube	3/8 x 3/16	.30
.0047	1600	CDE, Mylar	5/16 x 1 3/16	.30
.0039	2000	Ceramic Tube	1/2 x 1 7/16	.50

METALIZED FILM TUBULAR CAPACITORS

Tolerance ± 10%, axial leads.

400 VOLT

VALUE MFD.	DIA.-IN.	LG.-IN.	PRICE 1-49	50-up
.01	.22	.55	\$.30	\$.24
.015	.22	.55	.30	.24
.022	.22	.55	.30	.24
.033	.24	.55	.30	.24
.047	.28	.55	.35	.28
.068	.26	.75	.35	.28
.1	.30	.75	.40	.32
.15	.33	.75	.45	.36
.22	.39	.75	.50	.40
.33	.39	.98	.52	.42
.47	.45	.98	.55	.44
.68	.51	1.26	.80	.64
1.0	.59	1.26	.90	.72
2.2	.79	1.26	1.75	1.40

630 VOLT

VALUE MFD.	DIA.-IN.	LG.-IN.	PRICE 1-49	50-up
.001	.18	.39	\$.29	\$.23
.0015	.18	.39	.30	.24
.0022	.18	.39	.32	.26
.0033	.18	.39	.32	.26
.0047	.18	.39	.32	.26
.0068	.18	.39	.35	.28
.01	.24	.55	.35	.28
.015	.26	.55	.35	.28
.022	.26	.55	.37	.30
.033	.26	.75	.39	.31
.047	.30	.75	.44	.35
.068	.33	.75	.48	.38
.1	.39	.75	.55	.44
.15	.43	.75	.60	.48
.22	.43	.98	.65	.52
.33	.47	.98	.75	.60
.47	.51	1.26	.85	.68
.68	.59	1.26	.98	.78
1.0	.67	1.26	1.25	1.00
1.5	.75	1.26	1.70	1.36
2.2	.79	1.85	2.20	1.76



SILVER MICA CAPACITORS

500 volt, 5% tolerance. Dipped epoxy coating.

VALUE PF	PRICE 1-49	50-up	VALUE PF	PRICE 1-49	50-up
68	\$.60	\$.48	390	\$.92	\$.74
82	.60	.48	500	.92	.74
100	.60	.48	680	1.10	.88
150	.62	.50	820	1.18	.94
250	.69	.55	1000	1.32	1.06
300	.81	.65			



ELECTROLYTIC CAPACITORS — TWIST-MOUNT CANS

Checked for leakage and reformed where needed.

CAPACITY/VOLTAGE	DESCRIPTION	SIZE-IN.	PRICE
60/350, 20/350, 10/350	CDE	1" x 3"	\$ 1.85
10/450, 10/450, 20/25	Mallory FP	1" x 2"	1.60
20/450, 20/450, 20/450*	FP with sleeve	1 3/8" x 2 1/2"	1.60
30/350, 20/350, 10/350, 10/350**	Mallory FP	1 3/8" x 2 1/4"	1.70
40/400, 80/350, 20/350, 40/300		1 3/8" x 3 1/2"	2.30
120/450, 30/450, 20/450, 10/350		1 3/8" x 5"	2.85

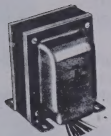
*Has isolated can with plastic sleeve overall.

**Has cardboard tube overall.

TRANSFORMERS



Horiz.



Vert.

TRIAD POWER TRANSFORMERS

Replacements for 1930 to 1950 AC Radios. Provided with color coded leads.

	RATING				MTG. CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. P-R-7A	300-0-300V.	50MA.	5V. 2A.	6.3V. 2A.	2 x 1 11/16, vert.	2.75	\$39.57
No. P-R-8A	250-0-250V.	75MA.	5V. 2A.	6.3C.T. 5A.	2 x 2 3/16, vert.	3.0	33.87
No. P-R-9A	300-0-300V.	75MA.	5V. 2A.	6.3C.T. 3A.	2 1/4 x 2 1/8, vert.	3.5	39.95
No. P-R-11B	350-0-350V.	90MA.	5V. 3.5A.	6.3C.T. 3.5A.	2 3/16 x 2 1/4, horiz.	4.5	49.33
No. P-R-112B	275-0-275V.	110MA.	5V. 2A.	6.3C.T. 5A.	2 3/16 x 2 1/4, horiz.	4	45.60
No. P-R-14A	350-0-350V.	125MA.	5V. 3A.	6.3V. 4.5A.	2 1/2 x 2 1/4, vert.	6	51.35

TRIAD FILAMENT TRANSFORMERS

U-bracket mounting.

	RATING			MTG. CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. P-F-1X	2.5V. C.T.		3A.	2 3/8	.8	\$ 9.32
No. P-F-3X	2.5V. C.T.		10A.	3 1/8	1.7	13.97

SPECIAL POWER TRANSFORMERS WITH 2.5V. FIL. WINDINGS (120V. 60Hz PRI.)

These transformers have been custom manufactured to provide the replacement needs for early 30's radios. No. P-142 will work in 4 and 5 tube sets while No. P-143 will work in most 6 and 7 tube sets. Supplied with vertical mounting shells, both have the leads coming out one side so that horizontal mounting may be used (see note). P-142 provides a separate filament winding for audio output stages but both 2.5V. windings can be paralleled for the combined current rating.

	RATING			MTG. CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. P-142	325-0-325V.	50 MA.	5V. 2A., 2.5V.C.T. 7.5A	2 x 2 1/4 (2 x 2 1/2)	2.5	\$36.95
No. P-143	350-0-350V.	70 - 90MA.*	5V. 3A., 2.5V. 7.5A., 2.5V.C.T. 3.5A	2 5/16 x 2 1/2 (2 1/4 x 3 1/8)	4.0	48.95

*Will provide 90MA. if 5V. winding is used with 2A. rectifier.

Note: Feet for vertical mounting can be cut off to enable horizontal mounting. Mounting Centers in parentheses () apply to horizontal mounting.

AUDIO INTERSTAGE TRANSFORMERS

U-bracket mounting, with leads (except P-431).

PART NO.	DESCRIPTION	MTG. CENTERS-IN	SHIPPING WT. OZ.	PRICE
No. P-156	Equivalent to Stancor A53-C. 1:3 ratio is ideal for early battery sets. Center tapped secondary may be used for push-pull grids.	2	6	\$ 7.95
No. P-431	Coil assembly only for above (P-156). Use your own iron to preserve mechanical fit. Coil window is 1/2" x 1/2".		2	5.95
No. P-144	1:1 ratio. Inductance on each winding is 700 mH. Ideal for early super-het I.F. replacement. Self resonant at 175 KHz. Add capacity for lower frequency.	2	6	4.80
No. P-A-33X	Plate to single or push-pull grids. Has 10,000 ohm primary and 90,000 CT secondary with 1:3 turns ratio. 6 watts.	2 3/16, U-bracket	16	15.95

UNIVERSAL AND HIGH FIDELITY OUTPUT TRANSFORMERS

PART NO.	MFG.	OUTPUT WATTS	APPLICATION	MATCHING IMPEDANCE-OHMS		FREQUENCY RESPONSE-HZ	MOUNTING CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. PT-985		3	Single 50L6, 50C5, etc.	PRIMARY	SECONDARY				
No. P-291	AES	8	Universal single or push-pull. Taps provided for close impedance match.	2500	3	50-10,000	1 3/4, U-bracket	1	\$ 3.90
				4000-10,000	1.5 to 15		2 3/8, U-bracket	1	9.90
No. P-S61Z	TRIAD	20	Universal push-pull. Taps provided for close impedance match.	4000-12,000	1.5 to 20	50-10,000	2 3/16	1.75	33.98
No. P-S142A	TRIAD	15	P-P 6V6's, EL-84's, etc.	8000CT*	16/8/4	20-20,000	2 x 2 7/16, vert.	3.75	46.50
No. P-S35A	TRIAD	20	P-P 6L6's, etc.	5000CT	16/8/4	20-20,000	2 x 2 11/16, vert.	4.3	38.90
No. P-S42A	TRIAD	50	P-P Par. 6L6's, class A	4500CT	16/8/4	30-15,000	2 3/4 x 3 1/2, vert.	8.25	54.95

*Williamson type circuit may be used. Taps on primary for screens.

TRIAD ISOLATION TRANSFORMER

Avoid shock hazard of AD/DC sets. Includes instructions for building test set-up to "age" early radios and prevent power supply damage. 115V. to 115V., 35VA 60 cycle. 2 lbs.

No. P-N-51X

\$12.59



DIAL LAMPS

Long life general replacement lamps for dials, indicators, etc.

TYPE	VOLTS	AMPS	BASE	BULB	PRICE Pkg. of 10
40	6.3	.15	Screw	T-3/4	\$2.70
41	2.5	.50	Screw	T-3/4	3.70
42	3.2	.35	Screw	T-3/4	9.50
43	2.5	.50	Bayonet	T-3/4	3.70
44	6.3	.25	Bayonet	T-3/4	2.70
45	2.5	.35	Bayonet	T-3/4	3.70
46	6.3	.25	Screw	T-3/4	3.50
47	6.3	.15	Bayonet	T-3/4	2.70
48	2.0	.06	Screw	T-3/4	5.90
49	2.0	.06	Bayonet	T-3/4	4.40
50	7.5	.22	Screw	G-3/2	3.90
51	7.5	.22	Bayonet	G-3/2	3.50
53	14.4	.12	Bayonet	G-3/2	3.20
55	7.0	.41	Bayonet	G-4/2	3.90
57	14.0	.24	Bayonet	G-4/2	4.90



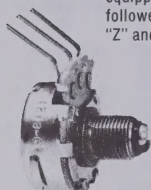
TUBE SOCKETS

For replacements or construction projects.

4 pin molded with mtg. plate, 1 1/2" mtg. centers	No. P-205M	\$2.50
4 pin phenolic wafer, 1 1/2" mtg. centers	No. P-205W	1.50
5 pin ceramic, mount in 1 1/8" diameter hole	No. P-206C	3.00
6 pin molded, mount in 1 1/8" diameter hole	No. P-207M	2.50
7 pin molded with mtg. plate, 1 3/4" centers	No. P-208M	2.50
7 pin phenolic wafer, 1 1/2" mtg. centers	No. P-208W	1.50
Octal molded with mtg. plate, 1 1/2" centers	No. P-209M	2.50
Octal phenolic wafer, 1 1/2" mtg. centers	No. P-209W	.80
Loctal molded with mtg. plate, 1 5/16" mtg. centers	No. P-200M	2.50
Loctal phenolic wafer, 1 5/16" mtg. centers	No. P-200W	1.50
7 pin miniature, molded with mtg. plate, 7/8" centers	No. P-201M	1.90
7 pin miniature, p.c. mount	No. P-201PC	1.90
9 pin miniature, molded with mtg. plate, 1 1/8" centers	No. P-211M	1.90
9 pin miniature, p.c. mount	No. P-211PC	1.90
9 pin compactron, molded with mtg. plate, 1 5/16" centers	No. P-254M	2.50
12 pin compactron, molded with mtg. plate, 1 5/16" centers	No. P-295M	2.50
5 pin nuvistor, p.c. mount	No. P-472	2.50

CLAROSTAT REPLACEMENT POTS

"Pick-A-Shaft" controls take any shaft listed below. 15/16" dia. body with 3/8 x 32 mounting bushing 3/8" long. May be equipped with switches listed below. Order by No. A47 followed by resistance value and curve letter. "S" is linear. "Z" and "W" are audio taper. .5 watt.



RESISTANCE VALUES AND TAPER

1000-S	25K-S	100K-S	1 Meg-S
5000-S	25K-W	100K-Z	1 Meg-Z
10K-S	50K-S	500K-S	2 Meg-S
10K-Z	50K-W	500K-Z	2 Meg-Z

Specify Value No. P-A47 \$2.55

SWITCHES FOR ABOVE

P-SWE-10 SPST 3A-125V.	1.90
P-SWE-20 DPST 3A-125V.	1.90

WIREWOUND POTENTIOMETERS

Clarostat 4 watt wirewound "Pick-A-Shaft" controls, 1 23/32" dia. body with 3/8" x 32 mounting bushing. Linear Taper.

RESISTANCE VALUES

2000 ohm
5000 ohm
10,000 ohm

Specify Value No. P-A58 \$4.85

PLUG-IN SHAFTS FOR ABOVE

No. P-RS-3	Round Shaft 3" Long	
No. P-KSS-3	Knurled Split Shaft 3" Long	
No. P-FS-3	Flatted Shaft 3" Long	
No. P-KFS-3	Knurled Flatted Shaft 3" Long	.62

NICHROME RESISTANCE WIRE

Use for making wirewound resistors, small heater elements, or repairing filament potentiometers. Available in 3 sizes.

PART NO.	OHMS/FT.	GAUGE	PRICE (Per Ft.)
No. SW-501	2.57	26	\$.10
No. SW-500	4.09	28	.10
No. SW-502	6.50	30	.10

TRIAD FILTER CHOKES

U-bracket mounting, with leads for universal replacement.

RATING	MTG. CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. P-C-3X 50MA. 10 Henries	2 3/8	.6	\$ 8.10
No. P-C-7X 90MA. 10 Henries	2 13/16	1.3	10.59

TUBE PIN STRAIGHTENER

For 7 and 9 pin miniature tubes. Can be mounted to workbench or tube tester.

No. S-8655 \$4.07

1/2 WATT CARBON FILM RESISTORS

5% tolerance. Stable, color-coded. Body .15" dia. by 38" long with 1 1/4" long leads.

TABLE OF VALUES

10	47	220	1.0K	4.7K	22K	100K	470K
12	56	270	1.2K	5.6K	27K	120K	560K
15	68	330	1.5K	6.8K	33K	150K	680K
18	82	390	1.8K	8.2K	39K	180K	820K
22	100	470	2.2K	10K	47K	220K	1.0M
27	120	560	2.7K	12K	56K	270K	1.9M
33	150	680	3.3K	15K	68K	330K	2.2M
39	180	820	3.9K	18K	82K	390K	3.3M

Specify Value Pkg. of 5 No. P-251 \$.39
100 per value No. P-251C .02@

WIREWOUND POWER RESISTORS

10% tolerance. Rectangular ceramic case with axial leads.

TABLE OF VALUES

5 WATT				10 WATT			
1	20	250	5K	1	30	250	
2	30	300	10K	2	40	300	
3	50	400		3	50	400	
4	75	500		4	75	500	
5	100	750		5	100	750	
7.5	120	1K		7.5	125	1K	
10	150	2K		10	150	2K	
15	200	3K		20	200	3K	
5 W., 0.4 Sq. x .91 Lg.				No. P-252 \$.35			
10 W., 0.4 Sq. x 1.93 Lg.				No. P-253 .45			

VARIABLE CAPACITORS AND TRIMMERS

VARIABLE CAPACITORS

Single section 105pf, 15/16" long frame, 1/4" dia. shaft with 1/8" dia. vernier. 3 oz.

No. CV-250 \$4.80

Single section 365 pf, 1 13/16" long frame, 1/4" dia. shaft, CW rotation. 3 oz.

No. CV-230 \$3.50

Single rotor with split stator. 320 pf. rear plus 345 pf. front section, 1/4" dia. shaft. Connect in parallel or use separate stators for superhet or 2 stage R.F. 5 oz.

No. CV-240 \$4.65

Three section 135pf. with trimmers. 3 1/8" long frame, tapped mtg. holes, 1/4" dia. shaft, CCW rotation. 9 oz.

No. CV-471 \$4.85

Three section 500pf., 3 1/8" long frame, 1/4" dia. shaft. 9 oz.

No. CV-900 \$5.90

TRIMMER CAPACITORS

Rotary Ceramic—high stability, excellent for high frequency use.

PART NO.	CAPACITY	PRICE
CV-405	3 to 12 pf.	\$.70
CV-406	4 to 30 pf.	.70
CV-407	5 to 50 pf.	.70

Hammarlund APC or equivalent. Screwdriver Adj.

PART NO.	CAPACITY	PRICE
CV-310	15 pf.	\$.95
CV-311	18 pf.	.95
CV-312	25 pf.	.95
CV-313	35 pf.	.95
CV-314	75 pf.	.95
CV-315	140 pf.	.95

PADDER CAPACITORS

For tracking superhets, etc. Mica compaction, 1/4" bushing mount.

PART NO.	CAPACITY	PRICE
CV-420	15-130 pf.	\$.95
CV-425	265-880 pf.	1.35

SPEAKERS AND HEADPHONES

High quality, permanent magnet, full-range replacement speakers. For electro-dynamic speakers we suggest substituting a 5 or 10 watt wirewound resistor or approximately the same resistance as the old field coil. For output transformers, see page 9.

PART NO.	SIZE & SHAPE	IMPEDANCE (OHMS)	POWER (WATTS)	PRICE
P-600	4" square frame	4	1	\$ 4.40
P-601	5" pin cushion frame	4-8	5	5.95
P-602	6" pin cushion frame	4-8	5	6.50
P-603	8" pin cushion frame	8	10	8.95
P-605	10" round frame	8	20	11.95
P-604	12" round frame	8	30	21.95
P-173	3 x 5" rectangular frame	4-6	5	2.70
P-69E8C	6 x 9" oval frame	8	18	11.90

HIGH IMPEDANCE HEADSET

High quality 2000 ohm double headphone. Has black light weight plastic ear caps, with metal headband, plastic cord and 2 phone tips. Works great with crystal set or our one tube radio kit. 6 oz.

No. S-466 \$11.90

CRYSTAL EARPHONE

High impedance crystal earphone is very sensitive and works great with crystal radios. Comes with 3 ft. cord and miniature (3.5mm) plug.

No. P-480 \$2.29

OLD STYLE HEADPHONE CORDS

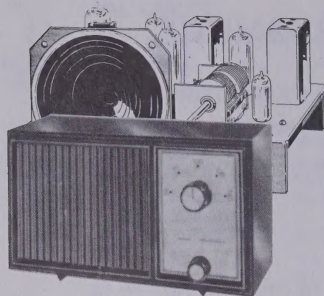
Replace frayed or worn headphone cords with these cotton-covered black replacement headphone cords. 6 ft. long, with ring terminals on both ends.

No. P-958 \$5.50

OLD STYLE SPEAKER WIRE

Brown cloth-covered 2-conductor tinsel wire, like found on 1920's vintage horn and cone-type speakers. Sold by the foot, terminals not included. See pg. 16 of catalog for phone tips.

No. P-413 per ft. \$.40



5 TUBE SUPERHETERODYNE RECEIVER KIT

Build this old-style 5 tube radio and learn about superheterodyne circuits! AC-DC radio kit comes complete with hi-gain ferrite rod antenna, molded tube sockets, pre-punched metal chassis, and black plastic cabinet. Also contains 4" PM speaker, volume control with ON-OFF switch, output transformer, IF transformers, 2 section superhet variable capacitor, oscillator coil and loopstick, all capacitors and resistors, mounting hardware, hook-up wire, line cord, solder and knobs. Tubes not included. Cabinet size is 8 3/4" x 5 3/4" x 3 3/4". 3 lbs.

No. K-282

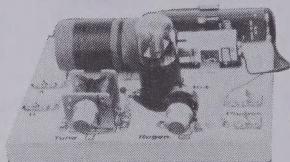
\$36.95

SET OF TUBES FOR ABOVE

Contains one each of types 12BE6, 12BA6, 12AV6, 50C5 and 35W4 for K-282 receiver kit. Specially priced set.

No. TX-AA5

\$12.95

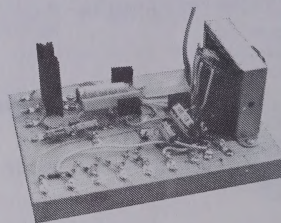


ONE TUBE REGENERATIVE RADIO KIT

Operates just like the one tubers of the early 1920's! The kit uses a 1G4 tube and tunes the standard broadcast band. A 6 x 7 1/2" white pine board is provided along with the tube, tuning condenser, regeneration control, coil form, wire, hardware, and easy to follow instructions. All that is needed for construction is a screw driver and soldering iron. Operates from a 1 1/2V. flashlight "C" battery and a No. 415 45V. battery (not included, see page 12 to order). No. S-466 High Impedance headset (on page 11) is recommended for output.

No. K-201

\$16.95



POWER SUPPLY KIT FOR EARLY BATTERY RADIOS

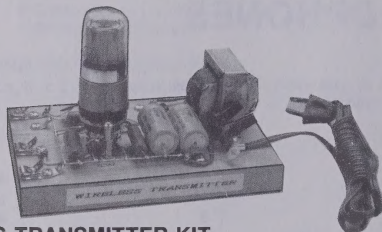
SPECIFICATIONS:

INPUT: 120V., 60 Hz.
"A" OUTPUT: Adjustable and regulated 1.5 to 7.5 volts, 1.5 Amps.
"B" OUTPUT: 22, 45, 67, 90, and 135 volts regulated up to 50 mA.
"C" OUTPUT: Adjustable, 0 to 22 volts. Regulated.

Kit includes transformer, rectifiers, capacitors, resistors, transistors, regulator I.C. and all hardware and white pine board. Easy to follow instructions for assembly. You need only a screw driver and soldering iron. 3 lbs.

No. K-101A

\$44.95



WIRELESS TRANSMITTER KIT

Now your antique radio can play some of the same programs it did when it was new! With your cassette tape player, phonograph or high output microphone, this one-tube transmitter becomes a miniature AM broadcasting station, patterned after the 1939 Zenith model S-7000 Wireless Record Player. Assemble on a 4 x 6 1/2" breadboard, all parts and instructions included. 2 lbs.

No. K-488

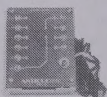
\$19.95

POWER SUPPLIES FOR EARLY BATTERY RADIOS

"A" Supply. Built specifically for A battery replacement by Antique Electronic Supply. Output 6 volts regulated $\pm 1\%$ up to 3 Amps. Supply up to 12 01A's. Adjustable 4 to 7 volts. Compact 4" x 5" x 2". Can be mounted inside your radio cabinet. With AC cord and built-in power switch. 3 lbs.

No. S-116

\$60.00



"B" and "C" Supply. 100 MA. output. Provides +135, +90, +67, +45, +22, and -3, -4.5, -9 and -22 volts electronically regulated $\pm 5\%$. Matches "A" supply above. Has own AC cord and built-in power switch. 2.5 lbs.

No. S-117

\$77.00

BATTERIES

The following Eveready batteries are now being stocked. The types listed have been chosen for powering 40's battery portables including Zenith transoceanics and for powering our 1 Tube Radio Kit.



EVEREADY NO.	VOLTAGE	SIZE-IN.	PRICE
S-735	1 1/2	2 5/8 x 2 5/8 x 4 3/8	\$4.20
S-276	9	2.56 x 2.03 x 3.16	6.40
S-415	45	1.05 x .63 x 3.69	6.80
S-455	45	2.66 x 1 x 3.69	10.95
S-467	67 1/2	2.81 x 1.38 x 3.71	13.50

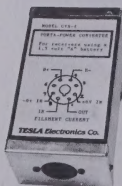
BATTERY CONNECTORS

Snap Connectors for the Eveready battery No. 276, 455, and 467, shown above.

MALE	No. S-151	\$.27
FEMALE	No. S-152	\$.27

NEW!

"PORTA-POWER" CONVERTERS



Replace obsolete battery packs on Zenith Transoceanics and other suitcase portables from the late 30's, 40's and 50's with new Porta-Power Converter. For any battery sets calling for a 1.5 to 9 volt "A" battery and a 67 1/2, two 45's, or a 90 volt "B" battery. Consists of a high efficiency DC to DC switching power supply, filament control, and a switch status monitor. Input requirement to the converter is supplied by standard "D" size Alkaline or rechargeable Nickel-Cadmium batteries. Converter fits neatly into receiver battery compartment along with 5 or 6 "D" cells, supplying all of the power required. Converter measure 3" x 5" x 2".

No. S-CVA-1

For sets requiring a 1 1/2 V. "A" battery

\$79.95

No. S-CVA-9

For sets requiring a 6, 7 1/2, or 9 V. "A" battery

\$79.95

No. S-BK-1

Installation Kit (Consists of battery holders, connectors and instructions)

9.95

ANTIQUE ELE

P. O.

Tempe, A

ANTIQUE ELECTRONIC SUPPLY

P.O. Box 1810 • Tempe, AZ 85280 • U.S.A. • (602) 894-9503 • FAX (602) 894-0124

DATE _____

YOUR ORDER NO. _____

SOLD TO

SHIP TO

NAME _____

NAME _____

STREET ADDRESS _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

CITY _____ STATE _____ ZIP _____

PHONE NO. () _____

PHONE NO. () _____

[illegible]

MINIMUM ORDER \$10.00

METHOD OF PAYMENT

☐ CREDIT CARD _____

CARD NUMBER

EXP. DATE _____

☐ CHECK☐ C.O.D.

SIGNATURE

TOTAL FOR GOODS _____

SALES TAX (AZ CUSTOMERS) _____

HANDLING CHARGE 2.00

SHIPPING CHARGES _____

TOTAL _____

ORDERING INFORMATION

Phone orders will be accepted from 8:30 A.M. to 5:00 P.M. (MT) Monday through Friday and 8:30 A.M. to 1:00 P.M. Saturdays. We accept MasterCard, Visa, and American Express. Please give us the name listed on the card, the complete card number, and the expiration date, either by phone or by mail. You may also mail a check or money order with your order. We can ship C.O.D. for an additional \$2.75 charge.

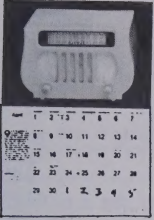
Prices shown are F.O.B. Tempe, Arizona, and do not include sales or local taxes, and are subject to change or withdrawal without notice. Minimum order is \$10.00. Add \$2.00 for handling on each order. Refer to the chart below for shipping charges.

SHIPPING CHARGES

To figure shipping charges, use the chart below and find the state you live in. Then estimate the total weight of your order and locate the corresponding shipping charge on the chart. For shipments to foreign countries contact us for a shipping quote.

STATE ► WEIGHT ▼	AZ	NV	CO UT NM CA	MT NE OK TX WY ID	MS IA LA MN SD ND IL	KS AR OR WA MO	WV NC SC GA FL AL	KY IN OH MI WI TN	MA RI NH ME VT CT	NY PA DE MD VA NJ	AK PR HI (AIR)	CANADA (AIR)
0-1 lb.	\$1.47	\$1.59	\$1.75	\$1.83	\$1.91	\$2.01	\$2.10	\$5.50	\$3.50			
2-3 lbs.	1.52	1.68	2.05	2.20	2.40	2.60	2.85	7.00	4.50			
4-6 lbs.	1.73	1.98	2.40	2.63	3.01	3.39	3.79	10.00	8.04			
7-9 lbs.	1.99	2.18	2.70	3.08	3.61	4.16	4.74	13.00	12.76			
10-14 lbs.	2.38	2.71	3.37	3.95	4.74	5.56	6.44	17.00	18.70			
15-20 lbs.	2.84	3.46	4.40	5.26	6.44	7.68	8.98	23.00	25.40			
21-26 lbs.	3.56	4.24	5.43	6.56	8.15	9.79	11.53	29.00	31.60			
27-32 lbs.	4.14	5.02	6.47	7.90	9.88	11.94	14.13	35.00	39.00			
33-39 lbs.	4.65	5.87	7.59	9.33	11.71	14.21	16.87	40.50	46.48			
40-50 lbs.	5.51	7.17	9.34	11.54	14.59	17.79	21.17	48.00	57.64			

GIFTS & SPECIALTIES



1990 ART DECO CALENDAR

1990 Calendar contains an all-new selection of 14" x 10" color pictures from the book *Radios: The Golden Age*, featuring art deco, novelty and streamlined radios of the 1930's and 1940's.

No. B-400 \$ 9.95



1990 VINTAGE RADIO CALENDAR

All new 1990 calendar features 12 large full-color pictures of classic radios from the 1920's - 1950's, including Crosley "Showbox," Stewart-Warner "Dionne Quints," Howe Crystal set, Radiola AR-812 "Superheterodyne," Atwater Kent cathedral and more.

No. B-527 \$ 8.95



NIPPER DOG

A replica of the famous RCA dog listening to "His Master's Voice". Molded from the highest quality ceramics with hand-painted facial features.

No. G-747F 12" high figurine \$46.50
No. G-746F 9" high figurine 28.00
No. G-722F 6 1/2" high figurine 13.95
No. G-744 3" high figurine 3.95



NIPPER SALT & PEPPER SHAKER

Handpainted ceramic figurines, like above, only Nipper supplies the salt, and a phonograph supplies the pepper. 3" high.

No. G-147 \$8.50



NIPPER REFRIGERATOR MAGNETS

3" high ceramic figurines of the famous "His Master's Voice" dog and phonograph have hand-painted features and flat magnet on back to stick to refrigerator or other surfaces.

No. G-800 \$ 5.95/pr.



NIPPER MUG

Drinking mug with the famous "His Master's Voice" picture on side. 12 oz.

No. G-435 \$ 5.50



CASSETTES - BEST OF OLD TIME RADIO

These cassette recordings by "Radio Reruns" are all-time favorite shows from the Golden Years of radio. Recorded originally from live broadcasts. Sound reproduction quality is limited to recording technology of that period, and may not sound up to modern hi-fi standards. Each cassette is 30 minutes long.

NO. TITLE

COMEDY

B-000-3	Abbott & Costello	"Who's on First," An All Time Classic
B-012-7	Golden Days of Radio	All the famous comedy stars
B-033-K	Fibber McGee & Molly	"That Ol' Closet Routine"
B-002-X	Jack Benny	"The Best of Jack Benny"
B-036-4	Burns and Allen	Classic Door-to-Door Salesman skit
B-021-8	The Best of Abbott & Costello	Classic collection of radio bits including "Moby Dick" & Alaska routines from the 30's and 40's
B-065-8	Edgar Bergen & Charlie McCarthy	Featuring Walt Disney & Donald Duck
B-064-X	Edgar Bergen & Charlie McCarthy	Featuring J. Garland, Abbott & Costello
B-060-7	Groucho Marx	"You Bet Your Life"
B-056-9	The Bickersons	"The Fatal Anniversary Present"
B-057-7	The Bickersons	"John's Snoring Dilemma"



CRYSTAL DETECTOR

A working reproduction of the "Junior Detector Stand" sold by the Wm. B. Duck. Co. in 1921 (Duck Catalog No. 16, p. 206). Base is finished in dark mahogany, and metal fittings are polished brass, gold lacquered. Crystal included. Base diameter - 3 in. overall height - 3 in.

No. G-158 \$ 24.95

GALENA CRYSTALS

Mounted Galena Crystals, like those used in early crystal detectors.

No. G-111 \$ 2.00

CRYSTAL DIODE

Point contact germanium type 1N69 in early glass case, like 1N34. Ideal for crystal radio detectors.

No. P-967 \$.90



CATS WHISKERS

Similar to the Philmore cat's whiskers and others. Made of phosphor bronze. Shown actual size.

No. P-415 3/\$1.00

NEW!

PHENOLIC PANELS

Black "Bakelite" panels like those used in early battery radios. Glossy finish, 3/16 thick.

No. S-710 8" x 12" \$ 6.75
No. S-710L 8" x 24" 13.50



DISPLAY TUBE BASE

Hardwood ring, 2" dia. by 3/4" high, for displaying tubes. Unfinished. 12 oz./doz.

With 25/32" dia. hole for slip fit with 4 prong bases No. G-122 doz./\$4.00
With 7/8" dia. hole for slip fit for 5 and 6 prong bases No. G-123 doz./\$4.00



RADIO COLLECTOR LAPEL PIN

Gold with multicolor brown enamel cloisonne pin. Has Atwater-Kent cathedral on it with single word "COLLECTOR". Round, 1" dia.

No. G-215 \$4.95

Order by No. below

Each \$3.98

NO. TITLE

MYSTERY & DRAMA

B-006-2	The Green Hornet	"A Matter of Evidence" All Time Best Show
B-039-9	Famous Moments in Sports	From boxing, football, baseball, olympics, etc.
B-009-7	50 Radio Commercials	5 Cent Pepsi, Ovaltine, and more
B-013-5	The Lone Ranger	"Journey to Adventure" First Show
B-031-3	Sherlock Holmes	"A Scandal in Bohemia"
B-059-3	Arch Oboler's Lights Out Everybody	"Profits Unlimited"
B-058-5	Arch Oboler's Lights Out Everybody	"Cat Wife"
B-061-5	Will Rogers	The Best of Will Rogers

RESTORATION AIDS



PHILCO KNOB REPRODUCTIONS

Molded plastic knob with set screw to fit 1/4" shaft.

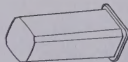
"Rosette Knob" - Used on 1931-1932 Philco cathedrals.
No. P-175 1 1/4" dia. tuning knob, brown \$4.50
No. P-176 7/8" dia., brown 4.50



No. P-177 1 1/16" dia. skirt., 7/16" dia. at front 4.50



Hex-shaped knob - Used on 1933-1934 Philcos.
No. P-178 1" dia., tuning knob, black 4.50
No. P-179 13/16" dia., black 4.50



PHILCO PUSHBUTTONS

Reproductions of the wine-colored push-buttons used for station presets on 40's vintage Philcos. Buttons measure 7/16" x 7/16" across front surface and come in 2 lengths. Back of buttons are slotted to fit onto 3/16" switch actuator.

No. P-411 3/4" long \$1.75
No. P-412 1 1/4" long 1.75



P-913

N.O.S. KNOBS

New, old stock brown phenolic knobs for 1/4" shafts, with set screws. 1" diameter.



P-908

No. P-913 \$1.65
No. P-908 1.65



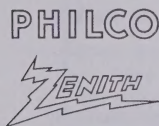
WOOD KNOBS

An exact reproduction of an early wood knob commonly found on many radios from 1928-1934. Knob is 1" diameter and 3/4" deep, with metal insert and set screw to fit on 1/4" diameter shaft. Finished in walnut.

No. P-903 \$2.79



Similar to above except different style with 1 1/8" skirt at base of knob.
No. P-971 \$2.79



STEWART-WARNER

RCA Victor



ATWATER KENT

OFF-ON VOLUME TONE

DECALS

High quality lacquer decal reproductions for early radio cabinets.

PHILCO, RCA VICTOR - The Philco name comes in 2 commonly used sizes, along with the early 30's version of the RCA Victor logo, in gold with black outline. Also contains the words 'Off', 'ON', 'TONE', and 'VOLUME', as well as extra numbers and letters for making your own words.

No. S-101A \$2.50

ZENITH - Gold with black outline, in 2 common sizes. Also contains the words 'AUTOMATIC', 'MEDIUM WAVE', 'STD. BROADCAST', and 'SHORTWAVE.'

No. S-904 \$2.50

EMERSON - Gold with black outline, in 2 common sizes. Also contains the words 'OFF-ON', 'VOLUME', 'TONE', 'BAND', 'AM', 'FM', 'BC', 'SW', 'POL' and 'AV'.

No. S-905 \$2.50

ATWATER KENT, STEWART-WARNER - The A.K. name comes both in solid gold and solid black colors, and the Stewart-Warner name is black with gold outline. Also contains the words 'OFF-ON', 'VOLUME', 'TONE', 'BAND', 'AM', 'FM', 'BC', 'SW', 'POL' and 'AV'.

No. S-906 \$2.50

BBC - Black and gold, 3/4" dia. for restoring British radio equipment.

No. S-949 \$3.25

BBC-Black, gold and red, 15/16" dia.

No. S-950 \$4.25

DO-IT-YOURSELF ELECTROPLATING!

Replate nickel, silver or brass radio and phonograph parts. Uses current from any 3 to 6 volt D.C. supply or batteries. Plating brush connects to positive voltage and part being plated connects to negative.

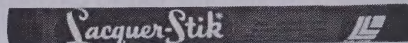
PLATING COMPOUND

Brass	S-222 per 2 oz. Jar	\$2.50
Copper	S-296	2.50
Nickel	S-223	5.25
Silver	S-224	11.50

PLATING BRUSH

S-225	ea. 1.25
-------	----------

Instructions included.



"LAQUER STIK", WIPE ON PAINTSTIK

Quick, economical way to color engraved lines or stampings on metal, glass, plastics, etc. Works great for filling in markings on TRF radio dial knobs and faceplates.

White	S-229	\$.90
Gold	S-230	1.70

DRI-TRANSFER LETTERING

Rub-on lettering simplifies panel labeling, dial marking, etc. Available in either black or white color.

DIAL MARKING KIT - Contains dial patterns, arcs, lines, dots, switch symbols, graduation lines, lines for rotary tap switches and calibrated meter dials. 3 sheets.

No. SM-175 (black)	\$2.85
No. SM-176 (white)	2.85

AUDIO, TV, & HI-FI - Contains over 400 words from 'AC' to 'Zero' in alphabetical order, as well as miscellaneous numbers and letters. 4 sheets.

No. SM-177 (black)	2.85
No. SM-178 (white)	2.85

AMATEUR RADIO & CB - Contains over 300 words from 'AC' to 'X-TAL' in alphabetical order, as well as miscellaneous numbers, letters and frequency designations. 4 sheets.

No. SM-179 (black)	2.85
No. SM-180 (white)	2.85

GRILL CLOTH

We have a wide selection of colors and patterns of grill cloth by Acoustone. A sample card picturing 9 different patterns plus the "old style" cloth patterns listed below is available for a \$10.00 deposit, refundable upon return of the card.

36" x 36" roll	No. S-113	\$ 9.95
12" x 18", 8 assorted pcs.	No. S-114	10.00
Sample Card	No. S-165	10.00

OLD STYLE GRILL CLOTH

These patterns are custom made to duplicate early style cloth. No. S-115 is a late 30's type cloth with a diamond pattern in gold and black thread. No. S-129 is a reproduction of the 1927 Atwater Kent model "E" speaker cloth. It is a finely woven gold colored cloth similar to that seen in RCA, Peerless, Rola, Brunswick, Utah and other 1920's vintage speakers. No. S-164 is the same pattern as S-129 in a light brown color. No. S-427 is a 1930's vintage cloth in copper color with black thread. It has a small rectangular pattern that repeats every 3/16". S-959 is the same pattern only in tan color. Samples of these may be seen on the S-165 sample card.

10" x 10" pc.	No. S-115	\$ 4.85
30" wide, per ft.	No. S-115F	15.00
10" x 10" pc.	No. S-129	5.50
30" wide, per ft.	No. S-129F	16.45
10" x 10" pc.	No. S-164	5.50
30" wide, per ft.	No. S-164F	16.45
10" x 10" pc.	No. S-427	5.50
30" wide, per ft.	No. S-427F	16.45
10" x 10" pc.	No. S-959	5.50
30" wide, per ft.	No. S-959F	16.45

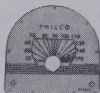
PHILCO RADIO DIALS



P-27-5031



P-27-5100



P-27-5168



P-27-5210

Reproductions of early 30's Philco dials used in models 33B, 37-84, 84B and 93B. Light brown translucent plastic, with black letter.

Each \$9.95

AERIOLA SR. INSTRUCTION CARD

A reproduction of the Westinghouse/RCA operating and hook-up instruction card which was located inside the lid.

No. P-232 \$3.75

ROTARY SWITCH

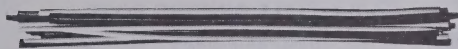
SPST switch with 6" leads, rated at 3A, 250V. Mounts in 3/8" hole and has 1/4" dia. flatted shaft, 3/8" long.

No. P-478 \$1.20

OLD STYLE SPAGHETTI

Black fiberglass sleeving is varnished and closely resembles early style spaghetti. Available in 2 sizes.

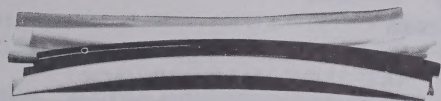
20 AWG	No. S-436	per ft.	\$.18
11 AWG	No. S-401	per ft.	.30



SPAGHETTI ASSORTMENT

9" lengths of insulating sleeving in assorted colors and sizes from No. 24 through 3/8". Includes old style varnished as well as plastic and fiberglass types.

Pkg. of 25 No. S-550 \$1.35



HEAT SHRINKABLE PVC TUBING

Shrinks to half its original size with heat gun, barrel of soldering iron, or just a match. Use for insulating terminals, connectors and wire splices.

CAT. NO.	DIA. EXPANDED	PIECES PER BAG
S-12-1044	.125	30
S-12-1046	.187	27
S-12-1048	.250	23
S-12-1080	Asst. Black	23

Pkg. of 6" lengths \$3.00



INSULATING CAMBRIC

Yellow varnished cambric .010" thick, used in transformers, field coils, chokes, etc. Dielectric strength 5,000 volts. 9" wide roll contains 210 sq. inches.

No. S-549 \$2.92

FISH PAPER

Gray insulating paper .010" thick, used in switches under terminals, in transformers, etc., where mechanical strength is required. Dielectric strength 3000 volts. 9" wide roll contains 250 sq. inches.

No. S-560 \$2.30

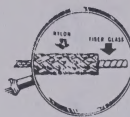


UNIVERSAL REPLACEMENT COILS

Will replace broadcast band coils in any tube type radio. Adjustable inductance for perfect tracking. Mount on bus wire leads or in 5/16" hole. Coils are similar to Miller numbers that correspond.

PART NO.	DESCRIPTION	PRICE
P-70-A	Antenna Coil	\$2.90
P-70-OSC	Oscillator Coil	2.75
P-70-RF	RF Coil	2.90

NOTE: We have a limited quantity of replacement I.F. transformers and other coils. Please inquire about availability.



DIAL DRIVE CABLE

No-stretch black cord made of nylon braid over fiberglass core. 25 foot spools.

Med./Heavy	.040" dia.	No. S-74-25	\$1.98
Standard Thin	.028" dia.	No. S-75-25	1.98
Extra Thin	.024" dia.	No. S-75A-25	1.98

ATWATER KENT TUNING BELTS

Beryllium copper belt stock for early A.K. and other dial drives. .004 in. thick by 3/16 in. wide. Can be easily soldered for joint.

No. S-242	5 ft. length	\$ 2.50
No. S-242A	100 ft. length	15.00

ZENITH DIAL BELTS

Replacement belts in 3 hard-to-find sizes. Belts are rubber impregnated fabric 1/8" wide x 1/16" thick.

No. S-417 — Equivalent to G.C. #117
Circumference Around Pulleys — 9 1/16"
Cut Length — 9 1/4"

Fits chassis nos. 8B01, 10B01, 10B1, 10B2, 1005, 1103, 12A6, 12B1, 1204, 1501, 1502, 1502A, 1503, 5516, 5518, 5679, 5707, 5808, 5905 and 5906.

No. S-418 — Equivalent to G.C. #138
Circumference Around Pulleys — 11 57/64"
Cut Length — 12 5/64"

Fits chassis nos. 12A1, 12A2, 12A3, 12A4, 12B2, 1204, 1206, 1207, 14B1, 1501, 1502, 1502A, 1503, 22B1, 5715, 5905, 5906, and 5907.

No. S-419 — Equivalent to G.C. #168
Circumference Around Pulleys — 12 13/16"
Cut Length — 13"

Fits chassis nos. 1004, 1204, 1501, 5634, 5635, 5709, 5711, 5801, and 5905.

ea. \$6.50

FABRIC DIAL BELTS

We have a large stock of fabric dial drive belts, other than the Zenith belts listed above. When ordering, specify make and model of your radio, plus cut length of belt.

No. S-233 ea. \$4.50



LAMP HOOD FOR RADIOLA 18

A reproduction of the dial light hood used on the Radiola 18. These are precision cast in pewter and brass plated and "antiqued" to look just like the originals.

No. P-157 \$4.69

ZENITH DIAL GLASS

A reproduction of the round convex glass that covered the tuning dial on middle and late 30's Zeniths. 1/2 lbs.

8 1/2" diameter	No. P-272	\$7.50
5 3/4" diameter	No. P-446	7.50



ELECTRONIC BALLAST - REPLACE RESISTANCE CORDS, TUBES, ETC.

Solid state module automatically controls tube heater current at 0.3 Amps. for ballast voltages of 30 to 60 volts corresponding to line cord resistance of 100 to 200 ohms. Increases tube life by controlling warm-up current. Phase controlled SCR eliminates heat of dropping resistors. 3/4" x 2" with leads - will fit under chassis.

No. P-909 \$8.70



RUBBER BUMPERS AND FEET

Screw on type.

1/4" H., 1/2" O.D.	No. S-1308	\$.10
3/8" H., 15/16" O.D.	No. S-253	.24

Self-adhesive backing.

1/8" H., 1/2" O.D.	No. S-16-150	1.33
	Pkg. of 20	



STRAIN RELIEF

Rubber type for standard zip cord. Black nylon clamping relief for SPT-1 (.120" x .220") cord. Mounts in 7/17" chassis hole.

Rubber	No. S-11-402	\$.15
Nylon	No. S-11-406	.10

RETAINING RING ASSORTMENT

Contains all popular retaining rings, "C" clips (Cerclips) and hold-down washers for turntables, idler wheels, gears and levers. 39 pieces — different types.

No. S-1494 \$4.32



PLUG-IN COIL FORM

Wind your own coils with these brown plastic plug-in coil forms, 2 7/16" x 1 3/8" diameter. Standard 8 pin octal base.

No. PC-987 \$1.30

SOLID STATE VIBRATOR REPLACEMENTS



New manufacture solid-state replacements for 6 volt (Mallory 4-4) and 12 volt (Mallory 12-4) 4 pin vibrators. One unit works in both 6 and 12 volt circuits, makes no noise, and lasts practically forever! 1 1/4" dia. x 2 3/8" high.

Negative grd. chassis	No. P-443A	\$18.50
Positive grd. chassis	No. P-444	18.50
3 Pin Neg. grd. only	No. P-901	18.50

NOTE - Original purpose 3 and 4 pin vibrators when available are \$18.50 each. We have a large variety of other vibrator types too numerous to list. Non-synchronous types are \$18.50 each, synchronous types \$24.50. Please inquire about your needs.

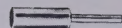


TUBE EGG CRATE

15" x 15" egg crates designed for storing tubes. Supplied unassembled.

PART NO.	TUBE TYPES	NUMBER OF CELLS	PRICE
S-124	GT, Metal	121 - 1 5/16 x 2 3/4	\$4.20
S-125	Small ST	81 - 1 1/2 x 3	3.25
S-126	Large ST	64 - 1 13/16 x 3 3/4	2.70
S-127	Ctn. for Above	15 x 15 x 4	1.80
S-128	Ctn. for Above	15 x 15 x 5	1.90

PHONE TIP



Standard .080" pin with .120" solder cup. Solid brass, nickel-plated.

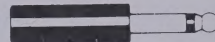
Pkg. of 10 No. S-33-156 \$2.20



PHONE PLUG

1/4" two conductor matches early battery radio jacks. With screw connections for headphone pins, etc. Black plastic handle.

No. S-33-622 \$2.04



PHONE PLUG

1/4" two conductor matches early battery radio jacks. With solder connections for headphone pins, etc. Black plastic handle.

No. S-256 \$.50



BINDING POST

High quality nickel plated binding post with black plastic screw down cap. Mounts in 3/16" dia. hole and is insulated from chassis. Will accept banana plug.

No. S-166 \$.90



EARLY STYLE BINDING POST

An exact reproduction of an early Philmore binding post. Precision machined from brass, nickel plated, 1/4" x 5/8" high, with screw.

No. S-159 \$1.95

FAHNESTOCK CLIP



Spring brass clip 3/4" long for up to 14 ga. wire. No. 6. mounting hole.

Pkg. of 100 No. S-11-4034 \$8.00



OLD STYLE 1/4" PHONE JACK

Yaxley double pole, double throw jack for 1/4" phone plug, mounts in 3/8" dia. hole.

No. P-481 \$2.00



BARGAIN HARDWARE ASSORTMENT

Contains thousands of screws, nuts, washers, springs, etc. used in electronic equipment. 2 lbs.

No. S-246 \$2.95

PLASTIC BAGS PROTECT VALUABLE LITERATURE!

9" x 12" .0015 guage clear flat plastic bags are ideal for protecting and displaying early magazines, pamphlets, booklets, literature, etc. Package of 100 bags.

No. S-703 \$3.99



TUBE BOXES

Plain white boxes with dividers to cushion tube. Minimum order - 10 of a size.

No.	MIN. SIZE	10-99 ea.	100-up
S-247	(1 x 1 x 3) 1 lb./100	\$.10	\$ 7.60
S-248	GT SIZE (1 5/16 x 1 5/16 x 3 11/16) 1.5 lbs./100	.12	9.00
S-249	LGT SIZE (1 5/8 x 1 5/8 x 4 15/16) 3 lbs./100	.14	10.90
S-250	G SIZE (2 x 2 x 6) 4.5 lbs./100	.16	13.20

TOOLS



TUBE EXTRACTOR

Remove WD-11 from Aeriola Sr., etc. Also handy for removing hot tubes and retrieving parts from cavities. Nickel-plated spring steel with rubber cushioned prongs. 4 oz.

No. S-5092 \$3.28



RIGHT ANGLE TUBE EXTRACTOR

Similar to above, with right angle tips for reaching tight or enclosed areas. 4 oz.

No. S-5099 \$4.07



ALIGNMENT TOOL KIT

Contains 5 different tools for all standard adjustments. Includes "Extend-it" for long reaches. Tools are Delrin packaged in pocket-saver pouch. Tools are: 8282 Zenith type, 8606 Hex wrench, 9091 Hex core tool, 9304 double end tool.

No. S-8454 \$3.58



CB ALIGNMENT TOOL KIT

Contains 5009 Duplex no-metal screwdriver, 5097 K-iran tool, 8271 core aligner, 8282 Zenith alignment tool, 9091 hex iron core tool, 9440 transistor tool, 8276 Duplex aligner and 9304 double end tool.

No. S-18-530 \$5.55



DOUBLE END HEX TOOL

Molded from Celcon, 5 3/32" long. Ends are .125 with .10" wide by .02" thick plastic screw driver on one end.

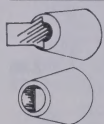
Same as above, with .100" hex. No. S-9091 \$.68
No. S-702 .68



DUPLEX ALIGNER

Butyrate shaft 6 1/8" long with 1/8" wide steel tips. Tip on end recessed.

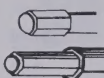
No. S-8276 \$1.00



ALIGNMENT TOOL

Professional tool made of tenite, 5 1/8" long shaft 3/8" dia. with tapered ends. Tips similar to above.

No. S-8609 \$.88



3-IN-1 HEX CORE TOOL

Molded from Celcon 5 9/16" long. Stepped hex .078" to .100". Undercut end .100" hex to reach bottom slug in coils.

No. S-9302 \$.92

PHONOGRAPH PARTS



EDISON AMBEROLA NEEDLE

Diamond replacement needle for Edison Amberola cylinder phonographs.

No. S-161 \$19.00



MOTOR MOUNTING GROMMETS

Rubber grommets for mounting phonograph motors measure 1/2" dia., 5/16" high, and 1/4" inner dia.

Pkg. of 9 No. P-407 \$2.88



CONVENTIONAL PHONOGRAPH NEEDLES

For all set screw and thumb screw cartridges.

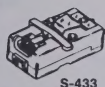
No. S-119 Straight steel needles, good for 12 plays each. Pkg. of 25. \$.75
No. S-160 Sapphire, all speed needle 1.50



ZENITH COBRA CARTRIDGES

Diamond tipped needle and cartridge to replace the Zenith Cobra and Wurlitzer cartridges.

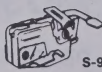
.001 tip radius for 16, 33, & 45 rpm (green) No. S-162 \$12.00
.002 tip radius for all speeds (green & red) No. S-186 12.00



S-433



S-974
S-986



S-983



S-984



S-979



S-980

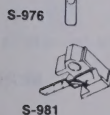
REPLACEMENT CARTRIDGES

PART NO.	ORIGINAL MFG. NO.	MONO (M) STEREO (S)	ELEMENT	VOLTS OUTPUT	SPEED (RPM)	TRACKING FORCE (GRAMS)	PRICE
S-433	Ast. 146-1	(M)	Crystal	2.7	33-45	8	\$ 9.95
S-974	Ast. 51-1	(M)	Ceramic	.7	33-45	8	10.95
S-986	Ast. 51-2	(M)	Ceramic	.7	All	8	10.95
S-983	EVG 38A	(M)	Ceramic	1.0	All	6	9.95
S-984	EVG 5344D	(S)	Crystal	2.2	All	6-8	11.50
S-979	Shure M44-C	(S)	Magnetic	9.3mv.	33-45	3-5	39.95
S-980	Shure M92-E	(S)	Magnetic	4.0mv.	33-45	1 1/4	26.95

78 RPM REPLACEMENT NEEDLES FOR ABOVE



3 mil, tip to convert above cartridges to 78 rpm.



S-981

PART NO.	TYPE
S-976	Sapphire
S-981	Shure 44-3, Diamond
S-982	Shure N913, Diamond

USED IN CARTRIDGES
Ast. 146
Shure M44, M55, M80E, M98A, V-15
Shure M91, M92, M93 series

PRICE
\$ 8.95
24.95
26.95

WIRE

BRAID COVERED POWER CORD

Brown 2 conductor 18 gauge, stranded power cord. Matches woven cloth-covered cords in early AC radios.

Per ft.	No. S-102	\$30
Per ft.	250 ft. spool	.24



AC CORD PLUG

Old style brown phenolic with screw terminals. Ideal for use with S-102 braid covered power cord.

No. S-100	\$95
-----------	------

REPLACEMENT CORD

SPT-1, 18 gauge 2 conductor, 6 ft. long with molded-on plug.

Black	No. S-118	\$.69
Brown	No. S-104	.69

MAGNET WIRE

Insulated with two coats of enamel. Perfect for winding coils and transformers.



No. S-L3-610	21 gauge, 100 ft.	\$1.95
No. S-L3-612	24 gauge, 200 ft.	1.95
No. S-L3-614	28 gauge, 200 ft.	1.95
No. S-L3-616	32 gauge, 400 ft.	1.95

BUS WIRE

#22 solid tinned copper bus wire. Approx. 100'

per spool	No. S-428	\$2.00
-----------	-----------	--------

EARLY STYLE SQUARE BUS WIRE

#12 AWG Square tinned copper.

Per 10 ft.	No. S-140	\$2.00
------------	-----------	--------

PHONO PICK-UP WIRE

Fine extra flexible 4 conductor with light copper braid shield. 4 color-coded cables, 5 ft. each.

No. S-L3-644	\$2.95
--------------	--------

NEW!

COTTON COVERED MULTI-CONDUCTOR CABLE

8 conductor 20 gauge stranded wire with brown cotton braid over all. Use to replace 1920's Atwater Kent battery cable, etc.

Per ft.	No. SW-711	\$2.00
---------	------------	--------

CLOTH COVERED HOOK-UP WIRE

#20 stranded copper wire covered with laquered cotton braid, closely resembles wire used in the late 20's and 30's. Available in 5 colors, on 50 ft. spools.

Black	No. S-704	\$4.95
Red	No. S-705	4.95
Blue	No. S-706	4.95
Green	No. S-707	4.95
Yellow	No. S-708	4.95

CELANESE COVERED WIRE

White celanese covered. Resembles early cotton covered wire. May be color dyed. Litz wire ideal for loop antennas. Cotton wrap.

#24 Magnet Wire, Per Foot	No. S-203	\$0.04
#26 Magnet Wire, Per Foot	No. S-107	.03
54/38 Strand-Litz Wire, Per Foot	No. S-106	.09

STRANDED AERIAL WIRE

Stranded 16-gauge copper wire, not insulated. For outside antennas. 50 ft.

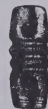
No. S-32-146	\$2.85
--------------	--------



ANTENNA LEAD-IN WIRE

Old-style flat lead-in to fit under closed window. Has fahnestock clip on each end.

No. P-499	\$95
-----------	------



INSULATOR

Old style insulator for antenna installations. Molded plastic.

No. S-2130	\$.80
------------	--------

SOLDER AIDS



SOLDERING IRON

30 watt AC/DC just the right size for electronic work. 3/16" dia. replaceable tip. UL approved. With tip rest. 6 oz.

No. S-12-055	\$5.30
--------------	--------

REPLACEMENT TIPS — for above. Package of 2.

No. S-12-056	\$1.70
--------------	--------

DESOLDERING BRAID

Made of finely-woven copper braid impregnated with pure rosin flux, for high efficiency and maximum solder holding capacity. 5 foot dispenser spool.

.08" wide	No. S-22-405	\$1.30
.15" wide	No. S-503	1.99



SOLDER

60/40 rosin core type in convenient, clear plastic, self-feed dispenser.

Standard .050" dia., 6 1/2 ft. length	No. S-H3-390	\$1.80
Fine Line .032" dia., 12 ft. length	No. S-H3-391	1.99



SOLDER AID TOOL

Stainless steel, solder will not stick. 6 1/2" long with plastic handle. Forked tip on one end, straight reamer on the other.

No. S-9075	\$2.29
------------	--------

CHEMICALS



PLASTIC POLISH

Novus No. 1 — Cleans and glazes plastic surface to resist finger marking, dust build-up and is anti-static. 2 oz.

No. S-216 \$1.69

Novus No. 2 — Removes fine scratches, abrasions and haziness from plastic surfaces. Great for plastic radio dial windows. For best results, follow with Novus No. 1 polish. 2 oz.

No. S-217 \$2.29



PLAS-T-PAIR

A complete repair kit for plastic knobs, radio cabinets and other plastic parts. It can be poured into a crack or molded to fill gouges, holes, or make parts. After setting it can be sanded, drilled, or polished.

No. S-244 \$4.25



WRIGHT'S BRASS CLEANER & POLISH

Makes those old Brass escutcheons on the front of your radio cabinets look like new. Also effective on Bronze, Chromium, Pewter and Stainless Steel. 8 fl. oz.

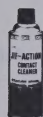
No. S-234 \$2.95



TUNER BATH

Residue free cleaner for TV and radio tuners, and other hi-frequency switch contacts. Will not affect metal or plastics and may be applied freely to blast away dirt, oxidation, or hardened oil and greases.

8 oz. No. S-10-900 \$3.95
16 oz. No. S-10-901 \$5.90



JIF ACTION

A general purpose contact cleaner possessing a balanced ratio of cleaning solvents to lubricating and protecting ingredients. May be used on all rotating and sliding contacts in all types of switches and controls.

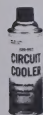
6 oz. No. S-10-634 \$2.60
16 oz. No. S-10-636 3.90



CLEAN SWEEP

This "miniature air compressor" removes dirt, dust and grit that normally cannot be reached. Aerosol can with adjustable 3-way valve and a long extension tube to project sweep into limited areas.

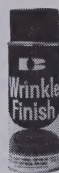
15 oz. No. S-10-165 \$4.95



CIRCUIT COOLER

Provides cooling for components where penetration is needed such as tubular capacitors and plastic encapsulated semi-conductors.

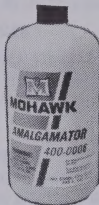
16 oz. No. S-10-8667 \$4.66



WRINKLE FINISH

Great for refinishing Atwater Kent, Crosley and other 20's vintage metal radio cabinets, faceplates and speakers. 13 oz. spray can from Illinois Bronz.

British Brown S-226 \$4.69
(Closely matches A.K. radios)
Jet Black S-227 4.69
Grey S-701 4.69



MOHAWK AMALGAMATOR

This is the cure for old radio cabinets where the finish has blushed, crazed, or cracked. Amalgamator softens the finish and allows the surface to smooth out, then re-hardens, leaving some sets looking like new! It works on lacquer as well as shellac, and is not available on your local store shelves. Comes in 1 quart bottle.

No. S-237 \$20.00



AMALGAMATOR SOLVENT

A special prepared reducer for the Amalgamator, recommended as a cleaner prior to padding a finish. Will not harm the original finish. 1 quart.

No. S-494 \$9.95



TIBET ALMOND STICK

Wipes out scratches in wood radio cabinets quick-as-a-wink. Simply rub end of stick over scratches in any type of wood and watch them disappear like magic!

No. S-243 \$2.95



PHONO NON-SLIP

Prevents slippage and restores proper functions on belts and drive wheels in turntables and tape recorders, especially where the rubber has hardened or become slick.

2 fl. oz. No. S-10-8602 \$1.70



PEN OILER

High quality non-gumming instrument oil. Fine long-reaching metal tube extends and retracts. Use on timers, clocks, etc.

No. S-10-984 \$2.55



LUBRIPLATE

White calcium base grease lubricant. Good for use on wiping contacts and sliding parts. Will not oxidize or harden.

1 3/4 oz. tube No. S-10-2302 \$2.40



PHONOLUBE

Light bodied grease made of polymerized oil specially developed for the lubrication of small geared mechanisms. Retains its viscosity over a wide range of temperatures.

2 oz. tube No. S-10-1223 \$2.20



SERVICE CEMENT

A quick-drying waterproof clear adhesive which forms a strong vibration resistant bond. Ideal for speaker repairs and bonding semi-porous materials to each other or to metals, plastics, etc.

2 fl. oz. No. S-10-302 \$2.20

TEST ACCESSORIES



14 RANGE MULTI - TESTER

Compact pocket size tester measures DC Volts, DC Current, Resistance, AC Volts, and Decibels. Features 3 color coded scale plate and front panel, diode protected meter movement, mirrored scale plate, and a one-year warranty. Battery, test leads and instructions included.

No. S-M1

\$12.95



DIGITAL CAPACITANCE METER

Eight ranges give precision readings from .1pF to 2000 uF, on a 3 1/2 digital LCD display. Can be used to check virtually all capacitors for tolerance, value, selecting matched sets, etc.

- LCD display, 3 1/2 digit, 0.5°
- Overrange indication.
- Low battery indication
- .5% accuracy ± LCD up to 2000uF.
- 1% over 2000uF.
- Wide series of ranges allows measurement of highest and lowest capacitance.
- Push button switches for easy one hand operation.
- Fuse protection on all ranges.
- SIZE: 7.1" (h) × 3.3" (w) × 1.5" (d) (180.4mm × 83.8mm × 38mm)
- Includes alligator clip test leads, batteries, spare fuse and instructions.

No. S-DCM2000

\$99.95

CIRCUIT TESTER



Incorporates electronic circuit generating broad-band signal from 1 KHz through 30 MHz. Has common lead with alligator clip. Requires 1 AA battery (not included).

No. S-20-106

\$12.95



RESISTANCE WHEEL

Rotate dial to select resistor for best circuit operation. Uses 1/4 watt 5% resistors covering 5 ohms to 1 megaohm. With insulated alligator clips.

No. S-20-104

\$10.95



JUMPER WIRE SET

Heavy duty test leads 22" long with insulated alligator clips. Contains black, red, white, green and yellow jumpers.

Set of 5

No. S-J4-655

\$3.35



STROBE DISK

Plastic disk calibrated to show correct turntable speed of plus or minus 2% or 4% deviations.

No. S-30-230

\$5.95

TEST EQUIPMENT FROM HEATHKIT



RF OSCILLATOR KIT

Provides AM modulated or unmodulated RF signals in five overlapping bands. Use the wide 310 KHz to 100 MHz frequency range to align receivers covering the AM, FM, longwave and shortwave broadcast bands. Calibrated harmonics make this generator usable all the way up to 220 MHz.

RF OUTPUT Frequency: 310 KHz to 100 MHz in 5 bands

100 MHz to 200 Hz using calibrated harmonics

Voltage: Approx. 100 mV RMS

Internal Modulation: 1KHz.

AF OUTPUT: Frequency: 1KHz

Voltage: Approx. 2 volts RMS

Power: 2 9-volt transistor batteries (not included)

Dimensions: 5 3/4" H x 11" W x 7 3/4" D

Weight: 3 1/4 lbs.

No. K-487

\$79.95



VERSATILE RLC BRIDGE

Check values of unknown or obliterated resistors, capacitors, and inductors with easy-to-assemble kit by Heath.

Resistance Ranges: 10 ohms to 10M ohms in 3 ranges

Inductance Ranges: 10MH to 10H in 3 ranges

Capacitance Ranges: 10pf to 10mf in 3 ranges

Oscillator Frequencies: 1 KHz, 10 KHz

External Standard Range: 1:1 to 10:1

Power: 2 9 volt transistor batteries (not included)

Dimensions: 5 3/4" H x 11" W x 7 3/4" D

Weight: 3 1/2 lbs.

No. K-485

\$69.95



COMPACT SIGNAL TRACER KIT

Keep your eyes on your work while your ears detect a good or bad signal. Locate faulty RF or IF stages and isolate faulty components. Also works on audio circuits. Uses 2 9-volt transistor batteries (not included). 5 3/4" H x 11" W x 7 3/4" D Weight: 3 lbs.

No. K-486

\$59.95

RADIO COLLECTING BOOKS

GUIDE TO OLD RADIOS: POINTERS, PICTURES AND PRICES. By David & Betty Johnson. Gives help with identifying, dating and pricing antique radios, featuring a list of 3300 radios showing descriptions and price ranges. Brief company histories are included. Over 350 photos and illustrations, including 8 pages in full-color. 192 pages total.

No. B-526 \$16.95

RADIO HORN SPEAKER ENCYCLOPEDIA. By F.A. Paul. This is the only book on the market specializing in horn speakers of the 1920's. Over 145 photographs of horns are presented here, and over 320 manufacturers are identified, with historical information given on the larger manufacturers. 80 pages. Excellent quality.

No. B-362 \$11.90

VINTAGE RADIO 1887-1929. By Morgan E. McMahon. A pictorial story of pioneer days in wireless radio, this book has become the standard reference for radio collectors. Should be the first book in any new collector's library. Over 1000 pictures. 263 pages.

No. B-304 \$11.95

A FLICK OF THE SWITCH 1930-1950. By Morgan E. McMahon. A companion volume to *Vintage Radio 1887-1929*, this book continues with the history of radio into the beginnings of Television. Over 1000 pictures. 300 pages.

No. B-305 \$11.95

1921-1932 RADIO COLLECTOR'S GUIDE. By Morgan E. McMahon. Lists key information on over 9,000 radio receivers made by some 1,200 companies prior to 1933. Gives manufacturer, year, original price, cabinet type, and technical information.

No. B-306 \$11.95

THE RADIO AND T.V. COLLECTOR'S GUIDE BOOK. by Guy Biraud. This is the first of a 2 volume set picturing and identifying over 2000 receiving sets made in Continental Europe. Published in France, the book covers the 1800's and early 1900's in parallel English and French translations. 255 pages.

No. B-398 \$49.95

COMMUNICATIONS RECEIVERS, THE VACUUM TUBE ERA: 50 GLORIOUS YEARS 1932-1981. By Raymond S. Moore. This alphabetical listing of manufacturers and descriptions of their receivers chronicles the early days of the communications receiver. A brief history of each manufacturer is presented, followed by a numerical listing of the models they produced giving year made, original price, bands covered, tube line-up, circuit description, and other comments. Over 115 photographs on 8 1/2" x 11" pages.

No. B-506 \$14.95

RADIO! RADIO! By Jonathan Hill. A truly comprehensive book on the history of British radio. Contains 1000 photographs of early equipment and a year-by-year chronology of important events in radio broadcasting and receiver production. 244 pages. Excellent quality.

**No. B-388 Hardcover \$29.95
No. B-363 Softcover \$19.95**

RADIOS: THE GOLDEN AGE. By Philip Collins. This is a photo essay celebrating the design of colorful plastic table radios of the 1930's and 1940's. 125 different models, all photographed under studio conditions, are presented here in a dazzling full color display of Art Deco, Streamlined and Novelty radios. Also available is a 1990 Wall Calendar featuring selections from the book (see catalog p. 13). 120 pages, excellent quality.

**No. B-379 Hardcover \$25.00
No. B-380 Softcover \$14.95**

THE AWA REVIEW, VOL. 4. The annual publication of the Antique Wireless Association for the Fall of 1989 features articles on Western Electric tubes, early G.E. tube development, history of women in communications, history of the microphone, and electroacoustic reproduction 1920-1930. Always a quality product.

No. B-536 \$ 8.95

LOS ANGELES RADIO MANUFACTURING, THE FIRST TWENTY YEARS. By Floyd A. Paul. An excellent history of Los Angeles radio manufacturers and their principals from 1922-1942. Covers Advance Electric Co., Lee DeForest Mfg. Company, Echophone Radio Co., Gilfillan Bros., Inc., Herbert Horn, Jackson-Bell Co., Patterson Radio Co., Pierson-Delane, Inc., Powell Mfg. Co., Sheldon Radio Co., and Troy Radio Mfg. Co. Well illustrated. 88 pages.

No. B-523 \$10.50

RADIO, A BLAST FROM THE PAST. By H.G. Wolff and I. Jacobson. This book presents the history of radio in pictures, from 1927 through 1942 by copying selections from early "Radio Retailing" and "Radio Jobber" magazines. Well over 1000 early radios are pictured, with brief descriptions of each. 317 pages.

No. B-391 \$24.00

RADIO COLLECTING BOOKS (cont.)

RADIO MANUFACTURERS OF THE 1920's. by Alan Douglas. This monumental 3 volume work offers an outline history for each of the major radio manufacturers of the 1920's. It features the company principals and their factories, the radio pioneers, the financial ups and downs of the industry, and hundreds of pictures showing radios produced up to 1930. Over 250 pages, each volume. Excellent quality. Volume 3 to be available Fall 1990.

Volume 1 — A-C Dayton thru J.B. Ferguson	No. B-384 Hardcover	\$29.95
	No. B-385 Softcover	19.95
Volume 2 — Freed Elsemann thru Preiss	No. B-534 Hardcover	39.95
	No. B-533 Softcover	24.95

THE AUTO RADIO, A ROMANTIC GENEALOGY. by Donald W. Matteson. Chronicles the advent of the automobile radio, with emphasis on the years 1930-1942, when the industry experienced its greatest expansion. Social commentaries and technical details make this book both a nostalgic journey and a valuable resource tool. Contains several hundred pictures, excellent quality. 300 pages, hardcover.

No. B-394 \$34.95

THE VACUUM TUBE LOGIC BOOK, 2nd EDITION. by David Manley. From the designer of the VTL audio equipment comes this book about the use of vacuum tubes in today's high-end audiophile systems. Topics covered are measurements and sound, speakers, cables and interconnects, preamplifiers, power amplifiers, transformers, and more. Also gives schematics of audio circuits and characteristics on selected high-end audio tubes.

No. B-532 \$14.95

THE TUBE AMP, BOOK II. By R. Aspen Pittman. This unique book contains everything you need to know about tube guitar amplifiers, including information on tubes, a pictorial history of classic guitar amps and their manufacturers, a section on mods for popular tube amps, and 270 pages of schematics covering all the well-known amplifiers. 359 pages.

No. B-518 \$14.95

VACUUM TUBE INFORMATION AND DATA

SAGA OF THE VACUUM TUBE. by Gerald F.J. Tyne. This highly sought-after book has long been considered by collectors to be the standard reference on early vacuum tubes and has now been made available again by Antique Electronic Supply. It contains essential facts to assist in identifying tubes made prior to 1930, as well as information on tube development and manufacturer's specifications. Several hundred photos. 495 pages, softcover. A classic!

No. B-376 \$15.95

70 YEARS OF RADIO TUBES AND VALVES. by John W. Stokes. Outlines the evolution of the receiving tube and the part it played in the development of the home radio receiver. Hundreds of excellent photos and illustrations make this a valuable resource for identifying and dating tubes. 250 pages. Softcover.

No. B-365 \$19.95

DATING THE RCA (CUNNINGHAM) COMPOSITION-BASE TUBES. By Brother Pat Dowd. A comprehensive paper based on RCA engineering bulletins covering the marking details and date coding of the tubes manufactured between 1924 and 1941.

No. B-343 \$ 2.00

G.E. TUBES — ESSENTIAL CHARACTERISTICS. The 14th (1973) edition of General Electric's tube data book, giving all the G.E. tube characteristics starting with 00A and 01A. Includes foreign to American tube interchangeability chart, industrial/military cross-reference, picture tube data and basing diagrams. Also entertainment semiconductors.

No. B-377 \$ 3.50

RADIO TUBE MANUAL. Reprint of early manual giving data and basing diagrams on tubes from 00A through octals and loctals. Includes types BA and BH, Sparton 182B and 183, and 2 pages on early Western Electric types. 35 pages.

No. B-337 \$ 2.95

TUBE SUBSTITUTION HANDBOOK (21st ED.) Howard W. Sams & Co. guide to tube substitutions, including foreign to American and American to foreign equivalents.

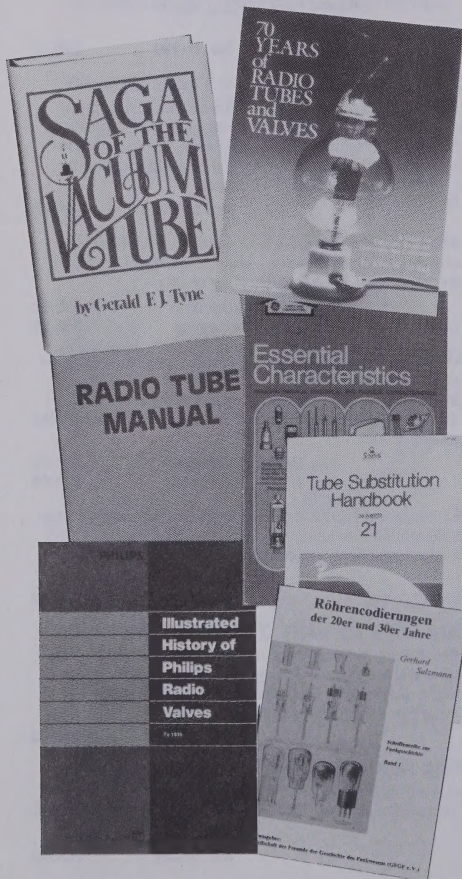
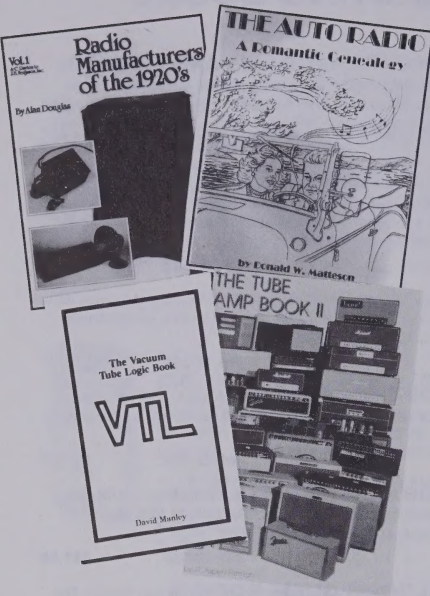
No. B-309 \$ 5.95

ILLUSTRATED HISTORY OF PHILIPS RADIO VALVES. Compiled by Fin Stewart. The Philips Company began production of electric lamps in Eindhoven, Holland in 1891, and introduced their first vacuum tube, the 10Z, in 1918. This book begins with the 10Z and covers the Philips tubes up to 1936, with many high-quality photos. 8 1/2" x 12", 31 pages.

No. B-509 \$ 5.95

ROHRENCODIERUNGEN DER 20ER UND 30ER JAHRE. (Tubes of the 1920's and 30's, Numbering Systems and DATA). An indispensable reference book on early European tubes. Includes dozens of manufacturers of various countries which produced their own lines of tubes under their own numbering systems. Written in German, 192 pages.

No. B-528 \$15.95



REPRINTS OF EARLY LITERATURE

VISION BY RADIO, RADIO PHOTOGRAPHS, RADIO PHOTOGRAMS. By C. Francis Jenkins. Nicely done reprint of a 1925 classic detailing all the early attempts at television transmission, including the Amstutz system, the Electrograph, the Baker machine, the Dr. Korn machine, the Belinograph, the Braun oscillograph tube, the Jenkins machines, the RCA system and more.

No. B-401 \$ 8.95

1934 OFFICIAL SHORTWAVE RADIO MANUAL. Edited by Hugo Gernsback. A high-quality reprint of Gernsback's 1934 "Complete Experimenter's Set-Building and Servicing Guide," including a "Full Directory of All Short Wave Receivers." Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits. 260 pages.

No. B-390 \$12.95

RADIO-CRAFT, 50 YEARS OF RADIO. Edited by Hugo Gernsback. A reprint of Gernsback's 1938 special issue of Radio-Craft magazine which commemorated the first 50 years of radio. Contains the reminiscences of radio pioneers DeForest, Sarnoff, Conrad, Crosley, McMurdo Silver and others, as well as the famous Gernsback predictions for the next 50 years. Also details the progression of the vacuum tube, mileposts in television and famous early radio circuits. 144 pages, hundred of photos.

No. B-373 \$14.95

THE WILLIAM B. DUCK CO., RADIO AND ELECTRICAL SUPPLIES CATALOG No. 16. This 1921 catalog has become a highly valued and sought after item by radio collectors. Now available in reprint form, its 256 pages provide an excellent resource for information on early receiving and transmitting apparatus, as well as parts.

No. B-351 \$18.95

SUPER HETERODYNE RECEIVERS. by Charles R. Leutz. A reprint of a 1924 classic, believed to be the first complete book published on this subject. Contains pictures of early receiving apparatus, including Leutz and Western Electric. 86 pages.

No. B-358 \$ 5.95

RADIO ENTERS THE HOME. In 1922 RCA introduced radio to the American public with this excellent 128 page 8 1/2 x 11" size book, now exceedingly rare in its original form. Contains pictures and information on the Aeriola Jr., Aeriola Sr., RA, DA, RC, ER-753, AR-1300, AA-1400, Aeriola Grand and more. High quality reprint, well illustrated.

No. B-K-26 \$12.95

RCA RADIOLAS, RADIOTRONS, AND ACCESSORIES. A reprint of 1925 RCA promotional literature: 20 pages of pictures and information on models 30, Super VIII, 28, 26, 25, 20, III, and IIIA receivers and loudspeakers #100, 102, 104 and UZ-1325.

No. B-K-15 \$ 3.50

RADIO SUPPLIES. A reprint of a 1923 catalog from the House of Andrae, in Milwaukee. Contains pictures and descriptions of early radio sets from RCA, Grebe, Radiodyne, Atwater Kent, Western Electric, Magnavox and Remler. 80 pages.

No. B-338 \$ 4.95

RADIO EQUIPMENT AND SUPPLIES. Reprint of a 168-page catalog of radio receivers, accessories, transmitting equipment, and general information about the emerging field of radio in 1922. Contains equipment by Atwater Kent, Brandes, Clapp Eastham, General Electric, H. H. Frost, Magnavox, RCA, C.D. Tuska, Western Electric, Westinghouse, and others.

No. B-K-28 \$13.95

WESTINGHOUSE APPARATUS. This 8-page, 8 1/2 x 11" reprint has descriptions and pictures of type RA tuner, DA detector and 2-stage amplifier, RC receiver, DB crystal detector, reproducing attachment for phonographs and more early 1920's apparatus.

No. B-K-29 \$ 4.00

CROSLEY RADIO CATALOG, CIRCA 1923. A reprint of the 1923 sales literature containing pictures and descriptions of the model IV, VI, VIII, X, XII, XV, XX and XXV receivers, as well as the condenser-unit, Duo-Amplo, Harko series and more. 32 pages on slick paper.

No. B-K-25 \$ 4.50

ATWATER KENT INSTRUCTION MANUAL, VOL. II. A quality reprint of Atwater Kent's 1925 instruction manual for the model 9, 10, 12, 19, 20 compact, 21 compact, and 24. Includes wiring diagrams, locations of controls, and many photos. Contains all the information given in Vol. I, plus 10 pages more.

No. B-348 \$ 8.50

RADIO TRADE DIRECTORY 1925. A high quality reprint listing the names and addresses of thousands of American manufacturers making radios and parts in 1925, and containing over 200 display ads with product illustrations. 190 pages.

No. B-529 \$ 8.95

REPRINTS (cont.)

S. GERNSBACK'S 1927 RADIO ENCYCLOPEDIA. This reproduction of Sidney Gernsback's 1927 classic details all that was known about radio in the mid-1920's; the people, the technology, and the equipment. 175 pages.

No. B-361 \$11.95

RADIO FOR THE MILLIONS. By the editorial staff of *Popular Science Monthly*. Reprint of a 1945 book contains over 70 radio construction projects, and 12 articles on servicing tips. 192 pages, well illustrated.

No. B-402 \$ 8.50

HAMMARLUND SHORT WAVE MANUAL. Quality reprint of the Hammarlund 1937 Short Wave Manual contains instructions for building 12 different 1, 2 and 3 tube short wave receivers, complete with pictures, schematics and parts lists. 32 pages.

No. B-519 \$ 4.95

SHORT WAVE BEGINNER'S BOOK. Quality reprint of a 1940 Gernsback publication introducing short wave radio to beginning set-builders. Includes articles on coils, receiver construction, amplifiers, regeneration, speaker coupling and aerials. 35 pages.

No. B-520 \$ 4.95

THE VERY BEST FROM THE ELECTRICAL EXPERIMENTER, 1916-1917. This series of construction articles taken from early Gernsback publications includes information on Tesla coils, spark gaps, vacuum tube detectors, batteries, radio, x-ray tubes and more. 105 pages. Well illustrated.

No. B-404 \$ 8.95

HOW TO BUILD AND OPERATE SHORT WAVE RECEIVERS. A high quality reprint of a 1934 publication by *Short Wave Craft* magazine, containing 30 simple construction projects for short wave reception. 72 pages. Well illustrated.

No. B-403 \$ 7.95

AUDIO ANTHOLOGY. Edited by C. G. McProud. This reprint series consists of construction and informational articles which originally appeared in *Audio Engineering* magazine in the late 40's and early 50's. Volume 1 covers the years 1947 thru 1949, featuring amplifier circuits utilizing the 6AS7G, 300A/B, 211, 6V6 and 807 output tubes, as well as information on tuners, tone controls, phono equalizers, noise suppressors, and speaker systems. Volume 2 covers 1950 thru 1952, with articles on amplifiers, pre-amps, speaker enclosures, phonographs, and tape recording. Over 120 pages, each volume.

No. B-525 Vol. 1 \$16.95
No. B-535 Vol. 2 16.95

INSTRUCTIONAL BOOKS & PROJECTS

ANTIQUE RADIOS, RESTORATION AND PRICE GUIDE. by David and Betty Johnson. An excellent introduction to the hobby of radio collecting with information on circuit theory, trouble-shooting and restoration tips. Also contains pictures of many collectable radios and current market value of 1000 different sets.

No. B-303 \$14.95

HOW TO REPAIR OLD-TIME RADIOS. by Clayton L. Hallmark. The best guide to antique radio repairing on the market! Teaches circuit theory and trouble-shooting techniques to the beginner, but can be helpful to the more advanced technician as well. 249 pages.

No. B-313 \$ 9.95

BASIC ELECTRICITY/ELECTRONICS, Volume 1, Second Edition. An introduction to the basic concepts of electricity and electronics with chapters on reading diagrams, soldering, resistors, transformers, capacitors, diodes, tubes and radio transmitting and receiving. 320 pages.

No. B-381 \$11.95

RESTORATION AND PRESERVATION OF SCIENTIFIC APPARATUS FOR COLLECTIONS. by Guy Biraud. This new book from France teaches the tricks of the trade for restoring parts and materials found in antique radios, as well as other scientific apparatus. Learn how to clean and repair bakelite, brass, wood, various finishes, glass, wire, leather, nickel plating, pot-metal, rubber, steel, stripped screws, vacuum tubes, veneer and more. 400 pages, hardcover, with side by side English and French translations.

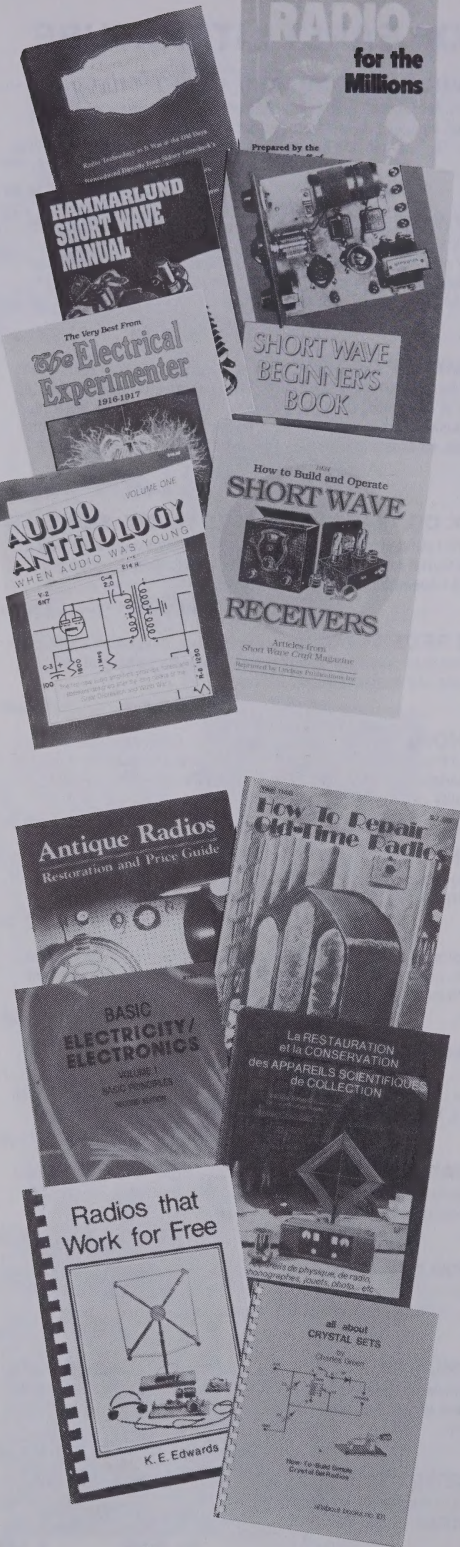
No. B-374 \$35.00

RADIOS THAT WORK FOR FREE. by K.E. Edwards. An experimenter's handbook on crystal radios, this book includes instructions and theory for building many different crystal radio circuits. 140 pages.

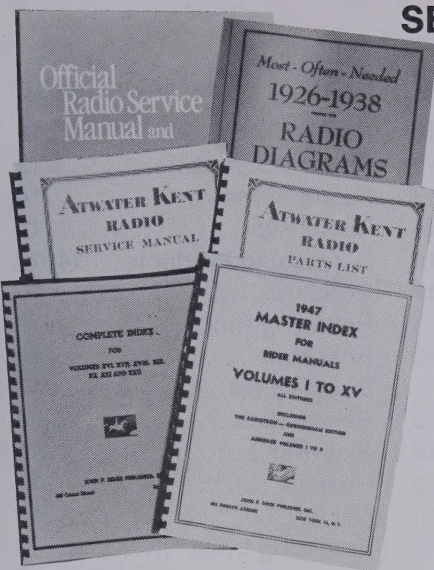
No. B-341 \$ 7.95

ALL ABOUT CRYSTAL SETS. by Charles Green. This book tells you about crystal sets and shows you how to build them. Complete plans are included for constructing seven different types of receivers. Instructions are also included for making a book tuning capacitor and a rotary switch.

No. B-325 \$ 7.95



SERVICING & TECHNICAL INFORMATION



OFFICIAL RADIO SERVICE MANUAL. Edited by Hugo Gernsback. A reprint of Gernsback's famous 1930 radio service manual, covering hundreds of early sets. Contains 70 pages of circuit theory and trouble shooting technique, as well as circuit diagrams on all the common 1920's vintage radios. 356 pages.

No. B-336 \$19.95

MOST OFTEN NEEDED 1926-1938 DIAGRAMS. A reprint of Morris Beitman's Supreme Publications book, showing circuit diagrams for 600 of the most commonly found radios of that time. A valuable resource for restorations. 240 pages.

No. B-307 \$11.95

ATWATER KENT RADIO SERVICE MANUAL. A reprint of the 1928 A.K. factory service manual, covering models 10, 10B, 12, 20, 20C, 30, 32, 33, 35, 36, 37, 38, 40, 42, 44, 48, 49, 50 and 52. 98 pages, spiral bound.

No. B-356 \$12.95

ATWATER KENT RADIO PARTS LIST. A companion book to the 1928 A.K. Service Manual, this reprint shows chassis views and parts identification for all the models listed above. 64 pages, spiral bound.

No. B-357 \$11.95

1947 MASTER INDEX TO RIDER PERPETUAL TROUBLESHOOTER MANUALS. Covers volumes 1 thru XV. High quality photocopy, spiral bound. 205 pages.

No. B-331 \$17.95

COMPLETE INDEX TO RIDER PERPETUAL TROUBLESHOOTER MANUALS. Covers volumes XVI through XXII. Spiral bound. 48 pages.

No. B-347 \$ 7.95

PHONOGRAPH BOOKS

THE EDISON CYLINDER PHONOGRAPHS 1877-1929. By George L. Frow and Albert F. Seff. The most detailed history of the Edison cylinder phonograph ever written. Loaded with illustrations of phonographs, reproducers, and accessories. We've imported these from a London publisher to make them available to American collectors. 200 pages, hardcover.

No. B-317 \$24.95

THE EDISON DISC PHONOGRAPHS AND THE DIAMOND DISCS.

By George Frow. 296 pages describing all models, giving production figures, promotional schemes and extensively describing production processes for making discs. The most complete history of Edison disc phonographs ever published. Due to its scarce availability in the United States, we've imported this book from England for the American phonograph collectors. Hardcover, excellent quality.

No. B-311 \$24.95

EDISON DISC ARTISTS AND RECORDS, 1910-1929. Compiled by Raymond R. Wile, edited by Ronald Dethlefsen. Contains the complete story of the Diamond Disc recordings, including a label dating guide, record dating guide, artist index, development of disc recording techniques, and listings of the Edison records. Beautifully done, 177 pages, well illustrated.

No. B-399 \$24.95

LOOK FOR THE DOG. By Robert W. Baumbach. An illustrated Guide to Victor Talking Machines, 1901 to 1929. 326 pages cover every model of phonograph Victor produced, with illustrations and descriptions. Also contains a section on servicing notes. This is the most complete book on Victor phonographs available anywhere! Hardcover.

No. B-310 \$19.95

THE COMPLEAT TALKING MACHINE - THE RESTORATION AND REPAIR OF ANTIQUE PHONOGRAPHS. By Eric Reiss. There has never been as complete a book on the topic as this. Contains everything you need to know to get your antique phonograph working again. Well illustrated. 183 pages.

No. B-359 \$14.95

THE STORY OF NIPPER AND THE HIS MASTER'S VOICE

PICTURE. By Leonard Petts. The whole story of how Francis Barraud painted the picture that was to become one of the most famous trademarks ever. 64 pages, illustrated.

No. B-126 \$ 6.50

THE VICTOR. Reprint of Victor Talking Machine booklet cataloging Victor I through Victor VI and Victrola X through XVI phonographs, horns, needles, etc. 32 pages of descriptions, pictures and original prices.

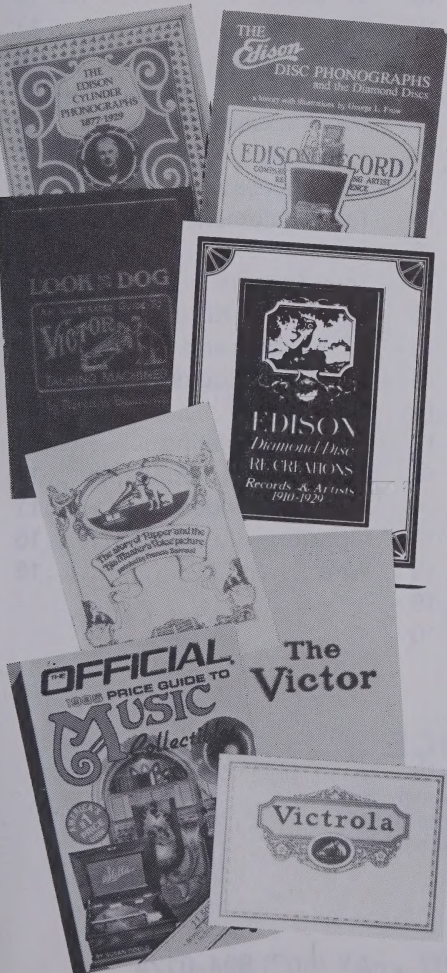
No. B-A-154 \$ 3.00

VICTROLA. Reprint of early Victor catalog. Starting with Victrola IV, illustrates and describes 26 phonograph models, on slick paper.

No. B-320 \$ 3.00

THE OFFICIAL PRICE GUIDE TO MUSIC COLLECTIBLES. Edited by Thomas E. Hudgeons III. Over 11,500 current market prices tabulated from actual sales made at auctions and dealer's shops across the country. Includes phonographs, music boxes, juke boxes, player pianos, musical instruments, records and music memorabilia. 550 pages, with illustrations.

No. B-333 \$11.95



INDEX

ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
Adhesives	19	Filter Chokes	10	Power Cords	18
Alignment Tools	17	Finishing Products	14, 19	Power Supplies	12
Antennas	18	Galena Crystal	13	Pushbuttons	14
Ballast	16	Grill Cloth	14	Radio Kits	12
Batteries	12	Hardware	16	Refinishing Products	14, 19
Belts	15	Headphones	11	Resistors	10
Binding Post	16	Heat Shrinkable Tubing	15	Retaining Rings	16
Books	21-25	Inductors	10	Rheostats	10
Boxes (tube)	16	Insulating Materials	15	Rubber Feet	16
Bulbs	10	Kits	12	Schematics	25-26
Bus Wire	18	Knobs & Pushbuttons	14	Sleeving	15
Calendars	13	Lamps and Lights	10	Sockets	10
Capacitors	8	Lettering	14	Solder	18
Cartridges (phono)	17	Literature	21-25	Soldering Irons	18
Cassettes	13	Lubricants	19	Spaghetti	15
Cat's Whiskers	13	Magnet Wire	18	Speakers	11
Cements	19	Meters	20	Strain Relief	16
Chemicals	19	Mugs	13	Switches	10, 15
Chokes	10	Needles	17	Tapes & Cassettes	13
Cloth	14	Nipper Dogs	13	Terminals	16
Coil Forms	16	Novelties	13	Test Accessories	20
Coils	15	Oil	19	Test Equipment	20
Connectors	12, 16	Output Transformers	9	Tools	17
Controls	10	Paints	14	Transformers	9
Cords	18	Phone Jacks	16	Transmitter Kit	12
Crystal Set Items	13	Phone Plugs	16	Tube Boxes and Crating	16
Decals	14	Phonograph Books	25	Tube Data Books	22
Dial Glass	15	Phonograph Cartridges	17	Tubes	1-7
Dial Belts	15	Phonograph Needles	17	Tubing, Insulating	15
Dial Cord	15	Pilot Light	10	Tubing, Heat Shrinkable	15
Dial Glass	15	Plastic Bags	16	Variable Condensers	11
Display Tube Base	13	Plating	14	Vibrators	16
Earphones	11	Plugs	16, 18	Wire	18
Electrical Sleeving	15	Polish & Cleaners	19		
Electroplating	14	Potentiometers	10		

SCHEMATIC SERVICE

We maintain a library of service information for early radios and TVs. Copies of radio schematics are available for \$4.50. TV schematics, or radio schematics where make or model is unknown are available for \$9.00.

ANTIQUE ELECTRONIC SUPPLY

688 W. First Street

Tempe, AZ • U.S.A. 85281

ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. POSTAGE

PAID
TEMPE, ARIZONA
PERMIT NO. 216

GEORGE SELATTI
FAIR RADIO SALES
1016 E. EUREKA ST. P.O. BOX 1105
LIMA, OH 45802

CHOICE RADIO COLLECTOR'S BOOKS

See pages 21 through 25 for additional books.

GUIDE TO OLD RADIOS: POINTERS, PICTURES AND PRICES, by David & Betty Johnson.

The latest guide to identifying, dating and pricing antique radios features a list of over 3300 models and descriptions, along with brief company histories. Includes 350 photos and illustrations, with 8 pages in full-color. 192 pages total.

No. B-526 \$16.95

THE RADIO TRADE DIRECTORY - 1925.

This high quality reprint lists the names and addresses of thousands of American manufacturers making radios and parts in 1925, and contains over 200 display ads with product illustrations. Included are over 150 vacuum tube manufacturers, 300 speaker manufacturers, almost 1000 radio set manufacturers, and more and more and more! 190 pages.

No. B-529 \$8.95

RADIO MANUFACTURERS OF THE 1920's, vol. 2, by Alan Douglas.

Alan Douglas' monumental work on radio in the 1920's has been heralded in all quarters as the "must-have" reference for all collectors and historians. The long awaited vol. 2 is now available, containing 265 pages of information on radio manufacturers; the company principals, the financial ups and downs, and hundreds of photos of the receivers they produced. Excellent quality.

No. B-534	Hardcover	\$39.95
No. B-533	Softcover	24.95

VINTAGE RADIO 1887-1929, by Morgan E. McMahon

A FLICK OF THE SWITCH 1930-1950, by Morgan E. McMahon

These two companion books by Morgan McMahon have formed the basic reference for antique radio collecting for 15 years! They provide a pictorial story of the pioneer days of radio, featuring radio receivers, crystal sets, tubes and components, loud speakers, amplifiers, televisions and more. Over 1000 pictures in each book.

Vintage Radio	No. B-304	\$11.95
Flick of the Switch	No. B-305	11.95

SEE PAGE 26 FOR COMPLETE INDEX

ANTIQUE ELECTRONIC SUPPLY • PHONE (602) 894-9503 • FAX (602) 894-0124